

Workload over accountable datasets

We contribute a first benchmark assessing metadata models with respect to accountability. Therefore, we created a workload of queries on accountable datasets. For different sources we obtained textual descriptions of what information is relevant in real-world data accountability scenarios (in the workload called *Initial Text*). The sources we chose are:

- (1) *FTC*: Federal Trade Commission: Data brokers: A call for transparency and accountability (2014)
- (2) *GDPR*: European Parliament, Council of the European Union: Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (2016)
- (3) *Experts*: An expert survey filled out by ten experts from various domains (including librarians, data management experts, doctors, social scientists).

From initial GDPR and Expert text descriptions, we obtained answerable statements or questions (*Derived Statements/ Questions*). The FTC statements were already available in a suitable form. Based on these statements or questions, we derive XQueries defined over an XML Schema that follows the LiQuID metadata model for accountable data (*Derived XQueries*).

Source: FTC, Statement 3

Initial Text:

Products and Services:

A. Provide a list and description as to the nature and purpose of all the products and services (both online and offline) that the Company offers or sells that use personal data. Include a separate description of each product or service identified[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
    <Name>{$x/../../Why/Information/Description/Name}</Name>
    <Description>{$x/../../Why/Information/Description/Description}</Description>
    <Purpose>{$x/../../Why/Information/Explanation/Purpose}</Purpose>
</Result>
```

Source: FTC, Statement 3

Initial Text:

[F]or each product or service, describe with specificity each type of personal data that is used in or by the product or service[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
      and $x/Description/Type="Service provider"
      and ($x/../../Why/Information/Description/Type="Product" or
           $x/../../Why/Information/Description/Type="Service")
      and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <Name>{$x/../../Why/Information/Description/Name}</Name>
  <DataDescription>{$x/../../What/Information/Description/Description}</DataDescription>
</Result>
```

Source: FTC, Statement 3

Initial Text:

[I]dentify and describe with specificity:
(1) the source(s) of each such type of personal data [that is used in or by a company product or service], including whether the source is a government agency or office[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $s in $x/../../DataCollection/Who/Information
  where $s/Description/Type="Source"
  return <Source>{$s/Description/Description}</Source>}{
  for $s in $x/../../DataCollection/Where/Information
  where $s/Description/Type="Source"
  return <Source>{$s/Description/Description}</Source>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(2) the procedures or means by which each such type of personal data [that is used in or by a company product or service] is collected, generated, or derived, including, but not limited to, cookies, a user's direct textual input, a user's behavior on the Company's website, a user's behavior on other websites, social media, a user's mobile use and activity, or other online or offline sources[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $s in $x/../../DataCollection/How/Information
  return <CollectionProcedure>{$s/Description/Procedure}</CollectionProcedure>
  }
  for $t in $x/../../DataProcessing/How/Information
  return <ProcessingProcedure>{$t/Description/Procedure}</ProcessingProcedure>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(3) for each such type of personal data [that is used in or by a company product or service], whether the Company acquires the consent, permission, or approval of consumers before obtaining, collecting, generating, deriving, disseminating, storing, or causing to be stored the personal data of said consumers.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/../../How/Information/LegalConsiderations/Consent}</LegalUsage>
  {
    for $s in $x/../../DataCollection
    return
      <Collection>
        <Consent>{$s//Consent}</Consent>
        <Permission>{$s/How/Information/Description/Permission}</Permission>
        <Approval>{$s/How/Information/Description/Approval}</Approval>

        <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
      </Collection>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

As part of your response, describe in detail how the Company obtains the consent, permission, or approval of said consumers[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $s in $x/../../DataCollection/How/Information
    return
      <Collection>
        <Consent>{$s//ConsentDetails}</Consent>
        <Permission>{$s/Description/PermissionDetails}</Permission>
        <Approval>{$s/Description/ApprovalDetails}</Approval>
      </Collection>
    }
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]
(4) the frequency with which each such type of personal data [that is used in or by a company product or service] is updated[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $s in $x/../../DataMaintenance/When/Information
    where $s/Description/Type="Update"
    return
      <Frequency>{$s/Description/Frequency}</Frequency>
  }
</Result>
```


Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(5) the extent to which and reasons why the availability of each such type of personal data [that is used in or by a company product or service] differs depending upon the purchaser[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <Purpose>{$x/../../Why/Information/Description/Description}</Purpose>
  <DataDescription>{$x/../../What/Information/Description/Description}</DataDescription>
  <DataLimitations>{$x/../../What/Information/Limitations}</DataLimitations>
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(6) whether the Company provides each such type of personal data [that is used in or by a company product or service] to users in the form in which it is acquired or whether the Company changes the form or content of such type of personal data in any way[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $s in $x/../../DataProcessing/Why/Information
    return
      <DataProcessingStep>{$s/Description}</DataProcessingStep>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[F]or the latter [if the Company changes the form or content of personal data that is used in or by a company product or service] describe each and every way in which the Company changes the form or content of each such type of personal data and the methodology employed to effect such change[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $s in $x/../../DataProcessing
  return
  <DataProcessingStep>
    <Description>{$s/Why/Information/Description}</Description>

    <Methodology>{$s/How/Information/Description/Methodology}</Methodology>
  </DataProcessingStep>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(7) whether each such type of personal data [that is used in or by a company product or service] is aggregated, anonymized, or de-identified and describe the process used to do so[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
for $s in $x/../../DataProcessing
return
  <DataProcessingStep>
    {if ($s/Why/Information/Description/Type="Aggregation") then(
  <Aggregation>{$s/How/Information/Description/Process}</Aggregation>
    ) else()}
    {if ($s/Why/Information/Description/Type="Anonymization") then(
  <Anonymization>{$s/How/Information/Description/Process}</Anonymization>
    ) else()}
    {if ($s/Why/Information/Description/Type="De-Identification") then(
      <De-Identification>{$s/How/Information/Description/Process}</De-
Identification>
    ) else()}
  </DataProcessingStep>
  }
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Identify and describe with specificity:]

(8) whether each such type of personal data includes information from or about children or teenagers. As part of your response, describe in detail whether the Company distinguishes personal data about children ages 12 and under from personal data about teenagers ages 13 through 17 and how the collection and provision of this data differs.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <Children>{$x/../../DataCollection/What/Information/Description/Statistics/Age}</
Children>
  <ChildrenExplanation>{$x/../../DataCollection/What/Information/Explanation/Chil
dren}</ChildrenExplanation>
  <ChildrenConsideration>{$x/../../DataCollection/What/Information/EthicalConside
rations/Children}</ChildrenConsideration>
  <ChildrenCollection>{$x/../../DataCollection/How/Information/Process/Children}</
ChildrenCollection>
  <ChildrenProvision>{$x/../../How/Information/EthicalConsiderations/Children}</Chil
drenProvision>
</Result>
```

Source: FTC, Statement 3

Initial Text:

B. State whether the Company monitors, audits, or evaluates the accuracy of personal data contained in each product or service identified in response to 3.A. If it does, provide a step-by-step explanation of how the Company monitors, audits, or evaluates the accuracy of such personal data, and describe the results from the Company's audits, evaluations, and monitoring efforts, including the accuracy rates for the personal data contained in each product or service. As part of your response, describe in detail:

(1) the Company's policies, practices, and procedures relating to the monitoring, auditing, or evaluation of the accuracy of personal data contained in each product or service[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <Accuracy>{$x/../../What/Information/Description/Quality/Accuracy}</Accuracy>
  <AccuracyEvaluation>{$x/../../What/Information/Explanation/Quality/AccuracyEval
uation}</AccuracyEvaluation>
  <AccuracyMaintenance>{
    for $s in $x/../../DataMaintenance/
    where $s/Why/Information/Description/Type="AccuracyEvaluation"
    return $s/How/Information/Description}
  </AccuracyMaintenance>
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Describe in detail:] (2) the Company's search and retrieval logic for matching its records with particular consumers[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
      and $x/Description/Type="Service provider"
      and ($x/../../Why/Information/Description/Type="Product" or
           $x/../../Why/Information/Description/Type="Service")
      and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <SearchAndRetrieval>{$x/../../How/Information/Description/ConsumerMatching/Methodology/SearchAndRetrieval}</SearchAndRetrieval>
</Result>
```

Source: FTC, Statement 3

Initial Text:

[Describe in detail:] (3) the Company's matching logic (i.e., evaluations regarding the effectiveness of the information submitted by clients and/or used by the Company about consumers in retrieving results related to the correct consumer)[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $s in $x/../../DataMaintenance/
      where $s/Why/Information/Description/Type="Incorporate Feedback"
      return
        <MatchingLogic>{$x/../../How/Information/Description/MatchingLogic}</MatchingLo
  gic>
  }
</Result>
```


Source: FTC, Statement 4

Initial Text:

Other Collection of Data:

A. Identify each type of personal data the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored that is not currently used in or by a product or service identified in your response to 3.A.[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
<DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $y in $x/../../When/Information
  where $y/@id = $x/@whenid
    and $y/Description/Enddate < getDate()
  return
  <NotUsed>
    <Name>{$x/../../Why/Information/Description/Name}</Name>
    <Enddate>{$y/Description/Enddate}</Enddate>
  </NotUsed>
}
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (1) the reason(s) why each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored] is not currently used in or by a product or service and any plans for future use[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  return <DataUsage>
    {if($x/../../When/Information/Enddate > getDate()) then () else (
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$x/../../When/Information/Description/Enddate}</Enddate>

      <Explanation>{$x/../../When/Information/Explanation/Enddate}</Explanation>
    )}
    {if ($x/../../When/Information/Startdate > getDate()) then (
      <Purpose>{$x/../../Why/Information/Description/Purpose}</Purpose>
      <Startdate>{$x/../../When/Information/Description/Startdate}</Startdate>

      <Explanation>{$x/../../Why/Information/Description/Explanation}</Explanation>
    ) else ()}
  </DataUsage>
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (2) for each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored] that was previously used in a product or service, identify (i) the name of the product(s) or service(s) that used the personal data, (ii) the number of such products or services sold annually, (iii) the Company's annual gross revenues attributable to each such product or service, (iv) the types of customers (e.g., individual consumers, retailers, ad networks, etc.) to which the Company provided each product or service, (v) the percentage of the product's or service's revenue contributed by each type of customer, and (vi) the names and contact information of the product's or service's 25 largest customers (25 entities who purchased the greatest unit and dollar amounts of each product or service) for each type of customer except individual consumers[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
<DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
        and $y/Description/Enddate < getDate()
    return
    <NotUsed>
        <Name>{$x/../../How/Information/Description/Name}</Name>
        <Enddate>{$y/Description/Enddate}</Enddate>
    </NotUsed>
}
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (3) the source of each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company], including whether the source is a government agency or office[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $y in $x/../../When/Information
  where $y/@id = $x/@whenid
    and $y/Description/Enddate < getDate()
  return
  <NotUsed>
    <Name>{$x/../../Why/Information/Description/Name}</Name>
    <Enddate>{$y/Description/Enddate}</Enddate>{
    for $s in $x/../../DataCollection/Who/Information
    where $s/Description/Type="Source"
    return <Source>{$s/Description/Description}</Source>
    }
  for $s in $x/../../DataCollection/Where/Information
  where $s/Description/Type="Source"
  return <Source>{$s/Description/Description}</Source>
  }
  </NotUsed>
  }
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (4) the procedures or means by which each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] is or was collected, generated, or derived, including, but not limited to, cookies, a user's direct textual input, a user's behavior on the Company's website, a user's behavior on other websites, social media, a user's mobile use and activity, or other online or offline sources[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>{
        for $s in $x/../../DataCollection/How/Information
        return
        <CollectionProcedure>{$s/Description/Procedure}</CollectionProcedure>
      }
      for $t in $x/../../DataProcessing/How/Information
      return
      <ProcessingProcedure>{$t/Description/Procedure}</ProcessingProcedure>
    }
  }
</NotUsed>
}
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (5) for each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company], whether the Company acquires or acquired the consent, permission, or approval of consumers before obtaining, collecting, generating, deriving, disseminating, storing, or causing to be stored the data of said consumers. As part of your response, describe in detail how the Company obtains the consent, permission, or approval of said consumers[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/../../How/Information/LegalConsiderations/Consent}</LegalUsage>
{
  for $y in $x/../../When/Information
  where $y/@id = $x/@whenid
    and $y/Description/Enddate < getDate()
  return
  <NotUsed>
    <Name>{$x/../../Why/Information/Description/Name}</Name>
    <Enddate>{$y/Description/Enddate}</Enddate>{
      for $s in $x/../../DataCollection/How/Information
      return
      <Collection>
        <Consent>{$s//ConsentDetails}</Consent>
        <Permission>{$s/Description/PermissionDetails}</Permission>
        <Approval>{$s/Description/ApprovalDetails}</Approval>

      <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
    }
  }
  </NotUsed>
}
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (6) the frequency in which each such type of personal data [that is not currently being used in services or products by the Company] is or was updated[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
  for $y in $x/../../When/Information
  where $y/@id = $x/@whenid
    and $y/Description/Enddate < getDate()
  return
  <NotUsed>
    <Name>{$x/../../Why/Information/Description/Name}</Name>
    <Enddate>{$y/Description/Enddate}</Enddate>{
    for $s in $x/../../DataMaintenance/When/Information
    where $s/Description/Type="Update"
    return
    <Frequency>{$s/Description/Frequency}</Frequency>
    }
  </NotUsed>
  }
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (7) the extent to which and reasons why the availability of each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] differs or differed depending upon the purchaser[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
        and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Purpose>{$x/../../Why/Information/Description/Description}</Purpose>

    <DataDescription>{$x/../../What/Information/Description/Description}</DataDescription>
  }
  <DataLimitations>{$x/../../What/Information/Limitations}</DataLimitations>
  }
  </NotUsed>
  }
</Result>
```


Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (8) each specific purpose or manner in which the Company anticipates or anticipated that each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] would or could be used by its users or customers and any limitations the Company places or placed on the use of each such type of personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Why/Information
where ($x/Description/Type="Product" or $x/Description/Type="Service")
      and $x/Description/By="myCompany"
      and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
          and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>{
        for $z in $y/../../Why/Information
        where $z/Description/Type = "AnticipatedPurpose"
        return
        <AnticipatedPurpose>{$z/Description/Description}</AnticipatedPurpose>
      }
    </NotUsed>
  }
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (9) whether the Company provides or provided each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] to users in the form in which it is acquired or whether the Company changes or changed the form or content of such type of personal data in any way, and for the latter describe each and every way in which the Company changes or changed the form or content of each such type of personal data and the methodology employed to effect such change[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>{
        for $s in $x/../../DataProcessing
        return
        <DataProcessingStep>
          <Description>{$s/Why/Information/Description}</Description>

          <Methodology>{$s/How/Information/Description/Methodology}</Methodology>
          </DataProcessingStep>}
      </NotUsed>}
  </Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (10) whether each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] is or was aggregated, anonymized, or de-identified and describe the process used to do so[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
        and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>{
        for $s in $x/../../DataProcessing
        return
        <DataProcessingStep>
          {if ($s/Why/Information/Description/Type="Aggregation") then(
            <Aggregation>{$s/How/Information/Description/Process}</Aggregation>
              ) else()}
          {if ($s/Why/Information/Description/Type="Anonymization") then(
            <Anonymization>{$s/How/Information/Description/Process}</Anonymization>
              ) else()}
          {if ($s/Why/Information/Description/Type="De-Identification") then(
            <De-
            Identification>{$s/How/Information/Description/Process}</De-Identification>
              ) else()}
        </DataProcessingStep>}
    </NotUsed>}
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe with specificity:] (11) whether each such type of personal data [that the Company has obtained, collected, generated, derived, disseminated, stored, or caused to be stored, but not currently being used in services or products by the Company] includes or included information from or about children or teenagers. As part of your response, describe in detail whether the Company distinguishes or distinguished personal data about children ages 12 and under from personal data about teenagers ages 13 through 17 and how the collection and provision of this data differs or differed[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>

    <Children>{$x/../../DataCollection/What/Information/Description/Statistics/Age}</
Children>

    <ChildrenExplanation>{$x/../../DataCollection/What/Information/Explanation/Chil
dren}</ChildrenExplanation>

    <ChildrenConsideration>{$x/../../DataCollection/What/Information/EthicalConside
rations/Children}</ChildrenConsideration>

    <ChildrenCollection>{$x/../../DataCollection/How/Information/Description/Process
/Children}</ChildrenCollection>

    <ChildrenProvision>{$x/../../How/Information/EthicalConsiderations/Children}</Chil
drenProvision>
    </NotUsed>}
</Result>
```

Source: FTC, Statement 4

Initial Text:

B. State whether the Company monitors, audits, or evaluates the accuracy of personal data contained in each product or service identified in response to 4.A., either presently or previously. If it does, provide a step-by-step explanation of how the Company monitors, audits, or evaluates the accuracy of such personal data, and describe the results from the Company's audits, evaluations, and monitoring efforts, including the accuracy rates for the personal data contained in each product or service. Describe in detail: (1) the Company's policies, practices, and procedures relating to the monitoring, auditing, or evaluation of the accuracy of personal data contained in each product or service[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>
      <DataName>{$x/../../What/Information/Description/Name}</DataName>{
        <Accuracy>{$x/../../What/Information/Description/Quality/Accuracy}</Accuracy>
        <AccuracyEvaluation>{$x/../../What/Information/Explanation/Quality/AccuracyEvaluation}</AccuracyEvaluation>
        <AccuracyMaintenance>{$x/../../DataMaintenance/How/Information/Explanation/Accuracy}</AccuracyMaintenance>
      }
    </NotUsed>
  }
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe in detail:] (2) the Company's search and retrieval logic for matching its records with particular consumers[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
      <NotUsed>
        <Name>{$x/../../Why/Information/Description/Name}</Name>
        <Enddate>{$y/Description/Enddate}</Enddate>
        <DataName>{$x/../../What/Information/Description/Name}</DataName>

        <SearchAndRetrieval>{$x/../../How/Information/Description/ConsumerMatching/Methodology/SearchAndRetrieval}</SearchAndRetrieval>
      </NotUsed>}
</Result>
```

Source: FTC, Statement 4

Initial Text:

[Describe in detail:] (3) the Company's matching logic (i.e., evaluations regarding the effectiveness of the information submitted by clients and/or used by the Company about consumers in retrieving results related to the correct consumer)[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>{
    for $y in $x/../../When/Information
    where $y/@id = $x/@whenid
      and $y/Description/Enddate < getDate()
    return
    <NotUsed>
      <Name>{$x/../../Why/Information/Description/Name}</Name>
      <Enddate>{$y/Description/Enddate}</Enddate>
      <DataName>{$x/../../What/Information/Description/Name}</DataName>

    <MatchingLogic>{$x/../../How/Information/Description/ConsumerMatching/Method
ology/MatchingLogic}</MatchingLogic>

    <MatchingLogicEvaluation>{$x/../../How/Information/Description/ConsumerMatchin
g/Quality/MatchingLogic}/MatchingLogicEvaluation>
    </NotUsed>}
</Result>
```

Source: FTC, Statement 5

Initial Text:

[Describe in detail:] (4) all of the purposes, and how the Company determines the purposes, for which the Company's customers use personal data provided by the Company, including but not limited to marketing, background screening, resale, or fraud detection purposes[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Name="myCompany"
    and $x/Description/Type="Service provider"
    and ($x/../../Why/Information/Description/Type="Product" or
        $x/../../Why/Information/Description/Type="Service")
    and $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <Name>{$x/../../Why/Information/Description/Name}</Name>
  <Customer>{$x/../../Who/Information/Description/Description}</Customer>
  <Description>{$x/../../Why/Information/Description/Description}</Description>
  <Purpose>{$x/../../Why/Information/Explanation/Purpose}</Purpose>
  <ServiceAgreement>{$x/../../Why/Information/LegalConsiderations/ServiceAgreement}</ServiceAgreement>
</Result>
```


Source: FTC, Statement 6

Initial Text:

6. Consumers:

A. State whether consumers are able to access personal data about them that is held by the Company. If consumers are not able to access their personal data, state the Company's rationale for not providing such access.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return
      if ($y/Description/Process) then (
        <AccessProcess>yes</AccessProcess>
      ) else (
        <AccessExplanation>{$y/Explanation}</AccessExplanation>
      )
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    if ($x/How/Information/Description/Process) then (
      <AccessProcess>yes</AccessProcess>
    ) else (
      <AccessExplanation>{$x/How/Information/Explanation}</AccessExplanation>
    )
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to access their personal data that is held by the Company, describe in detail:] (1) a step-by-step explanation of how consumers access such personal data [.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return
      <AccessProcess>{$y/Description/Process}</AccessProcess>}
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <AccessProcess>{$x/How/Information/Description/Process}</AccessProcess>
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to access their personal data that is held by the Company, describe in detail:] (2) the types of personal data that consumers can and cannot access[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      for $z in $y/././What/Information
      where $z/@id = $y/@whatid
      return
      <DataSubjectAccess>
        <AvailableData>{$z/Description}</AvailableData>
        <NotAvailable>{$z/Limitations}</NotAvailable>
      </DataSubjectAccess>
    ) else ()
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/How/Information
    if ($x/How/Information/Description/Process) then (
      for $z in $x/What/Information
      where $z/@id = $y/@whatid
      return
      <DataSubjectAccess>
        <AvailableData>{$z/Description}</AvailableData>
        <NotAvailable>{$z/Limitations}</NotAvailable>
      </DataSubjectAccess>
    ) else ()
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to access their personal data that is held by the Company, describe in detail:] (3) the terms and conditions for accessing personal data, including any limitations on the frequency of access[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return if ($y/Description/Process) then (
      <DataSubjectAccess>
        <AccessProcedure>
          <AccessibleHow>{$y/Description/Process}</AccessibleHow>
          <NotAccessibleHow>{$y/Limitations}</NotAccessibleHow>
        </AccessProcedure>{
          for $a in $y/././Where/Information
          where $a/@id = $y/@whereid
          return
            <AccessLocation>
              <AccessibleWhere>{$a/Description}</AccessibleWhere>
              <NotAccessibleWhere>{$a/Limitations}</NotAccessibleWhere>
            </AccessLocation>{}
          for $b in $y/././When/Information
          where $b/@id = $y/@whenid
          return
            <AccessTime>
              <AccessibleWhen>{$b/Description}</AccessibleWhen>
              <NotAccessibleWhen>{$b/Limitations}</NotAccessibleWhen>
            </AccessTime>}
        </DataSubjectAccess>
      ) else ()}
  </Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
```

```
for $y in $x/How/Information
return if ($y/Description/Process) then (
<DataSubjectAccess>
  <AccessProcedure>
    <AccessibleHow>{$y/Description/Process}</AccessibleHow>
    <NotAccessibleHow>{$y/Limitations}</NotAccessibleHow>
  </AccessProcedure>{
for $a in $x/Where/Information
where $a/@id = $y/@whereid
return
<AccessLocation>
  <AccessibleWhere>{$a/Description}</AccessibleWhere>
  <NotAccessibleWhere>{$a/Limitations}</NotAccessibleWhere>
</AccessLocation>}{
for $b in $x/When/Information
where $b/@id = $y/@whenid
return
<AccessTime>
  <AccessibleWhen>{$b/Description}</AccessibleWhen>
  <NotAccessibleWhen>{$b/Limitations}</NotAccessibleWhen>
</AccessTime>}
</DataSubjectAccess>
) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to access their personal data that is held by the Company, describe in detail:] (5) the types of personal information consumers are required to provide to verify their identities prior to accessing their personal data, and how the Company utilizes this verification information[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return if ($y/Description/Process) then (
      <DataSubjectAccess>
        <AccessProcedure>

      <VerificationInformation>{$y/Description/Access/VerificationInformation}</Verificati
onInformation>

      <VerificationProcess>{$y/Description/Access/VerificationProcess}</VerificationProce
ss>
    </AccessProcedure>{
      </DataSubjectAccess>
    } else ()
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/How/Information
    return if ($y/Description/Process) then (
      <DataSubjectAccess>
        <AccessProcedure>

      <VerificationInformation>{$y/Description/Access/VerificationInformation}</Verificati
onInformation>
```

```
ss> <VerificationProcess>{$y/Description/Access/VerificationProcess}</VerificationProce
    </AccessProcedure>{
    </DataSubjectAccess>
    ) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to access their personal data that is held by the Company, describe in detail:] (7) the date on which the Company first began to give consumers access to personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/././Who/Information/Description/Type = "Data subject"
    return
      <DataSubjectAccess>{
        if ($y/Description/Process) then (
          for $b in $y/././When/Information
          where $b/@id = $y/@whenid
          return
            <StartDate>{$b/Description/StartDate}</StartDate>
        ) else ()}
      </DataSubjectAccess>
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/How/Information
    <DataSubjectAccess>
      if ($y/Description/Process) then (
        for $b in $x/When/Information
        where $b/@id = $y/@whenid
        return
          <StartDate>{$b/Description/StartDate}</StartDate>
      ) else ()}
  }
</Result>
```


Source: FTC, Statement 6

Initial Text:

B. State whether consumers are able to correct personal data that is held by the Company. If consumers are not able to correct their personal data, state the Company's rationale for not allowing such corrections.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/../DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/../Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      <CorrectionProcess>yes</CorrectionProcess>
    ) else (
      <CorrectionExplanation>{$y/Explanation}</CorrectionExplanation>)}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to correct their personal data that is held by the Company, describe in detail:] (1) a step-by-step explanation of how consumers correct such personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/../DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/../Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      <CorrectionProcess>{$y/Description/Process}</CorrectionProcess>
    ) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to correct their personal data that is held by the Company, describe in detail:] (2) the types of personal data that consumers can and cannot correct[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      for $z in $y/././What/Information
      where $z/@id = $y/@whatid
      return
      <DataSubjectCorrection>
        <CorrectableData>{$z/Description}</CorrectableData>
        <NotCorrectable>{$z/Limitations}</NotCorrectable>
      </DataSubjectCorrection>
    ) else ()
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to correct their personal data that is held by the Company, describe in detail:] (3) the terms and conditions for correcting personal data, including the Company's efforts to prevent the reappearance of inaccurate data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
      <TermsAndConditions>{$y/././LegalConsiderations//TermsAndConditions}</Terms
AndConditions>
      <DataSubjectCorrection> {if ($y/Description/Process) then (
        <CorrectionProcedure>
          <CorrectableHow>{$y/Description/Process}</CorrectableHow>
          <NotCorrectableHow>{$y/Limitations}</NotCorrectableHow>
          <AccuracyEfforts>{$y/Explanation/AccuracyEfforts}</AccuracyEfforts>
        </CorrectionProcedure>{
          for $a in $y/././Where/Information
          where $a/@id = $y/@whereid
          return
            <CorrectionLocation>
              <CorrectableWhere>{$a/Description}</CorrectableWhere>
              <NotCorrectableWhere>{$a/Limitations}</NotCorrectableWhere>
            </CorrectionLocation>{
              for $b in $y/././When/Information
              where $b/@id = $y/@whenid
              return
                <CorrectionTime>
                  <CorrectableWhen>{$b/Description}</CorrectableWhen>
                  <NotCorrectableWhen>{$b/Limitations}</NotCorrectableWhen>
                </CorrectionTime>}
          } else {}
        </DataSubjectCorrection>}
      </Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to correct their personal data that is held by the Company, describe in detail:] (5) the types of personal information consumers are required to provide to verify their identities before correcting their personal data, and how the Company utilizes this verification information[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/././Who/Information/Description/Type = "Data subject"
    return if ($y/Description/Process) then (
      <DataSubjectCorrection>
        <CorrectionProcedure>

        <VerificationInformation>{$y/Description/VerificationInformation}</VerificationInformation>

        <VerificationProcess>{$y/Description/VerificationProcess}</VerificationProcess>
          </CorrectionProcedure>{
            </DataSubjectCorrection>
          } else {}
    ) else {}
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to correct their personal data that is held by the Company, describe in detail:] (7) the date on which the Company first began to give consumers the ability to correct their personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
    <DataSubjectCorrection>{
      if ($y/Description/Process) then (
        for $b in $y/././When/Information
        where $b/@id = $y/@whenid
        return
          <StartDate>{$b/Description/StartDate}</StartDate>
      ) else ()
    }
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

C. State whether consumers are able to opt out of the collection, use, or sharing of their personal data. If consumers are not able to opt out, state the Company's rationale for not allowing consumers to opt out.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProc
ess>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
for $y in $x/../DataMaintenance/How/Information
where $y/Description/Type = "Data OptOut"
and $y/../Who/Information/Description/Type = "Data subject"
return
if ($y/Description/Process) then (
  <OptOutProcess>yes</OptOutProcess>
) else (
  <OptOutExplanation>{$y/Explanation}</OptOutExplanation>)}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (1) a step-by-step explanation of how consumers opt out[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProc
ess>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
for $y in $x/../DataMaintenance/How/Information
where $y/Description/Type = "Data OptOut"
  and $y/../Who/Information/Description/Type = "Data subject"
return
if ($y/Description/Process) then (
  <OptOutProcess>{$y/Description/Process}</OptOutProcess>
) else ()}
</Result>
```


Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (2) the specific products, services, or search results to which the opt out applies and does not apply[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProcess>
  <LinkedUsages>{
    for $y in $x/../DataUsage/Why/Information
    where ($y/Description/Type="Product" or $y/Description/Type="Service")
    return
      <Description>{$y/Description/Description}</Description>
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/../DataMaintenance/How/Information
    where $y/Description/Type = "Data OptOut"
      and $y/../Who/Information/Description/Type = "Data subject"
    return
      <OptOutProcess>{$y/Description/Process}</OptOutProcess>
  }
  <LinkedUsages>{
    for $z in $y/../DataUsage/Why/Information
    where ($z/Description/Type="Product" or $z/Description/Type="Service")
    and $z/../What/Information/Description/@id =
      $y/../What/Information/@LinkedData
    return
      <Description>{$z/Description/Description}</Description>
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (3) the terms and conditions for opting out[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProc
ess>
  <TermsAndConditions>{$x/How/Information/LegalConsiderations/OptOut/TermsAnd
Conditions}</TermsAndConditions>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
for $y in $x/./DataMaintenance/How/Information
where $y/Description/Type = "Data OptOut"
  and $y/././Who/Information/Description/Type = "Data subject"
return
  <TermsAndConditions>{$y/././LegalConsiderations//TermsAndConditions}</Terms
AndConditions>
  <DataSubjectOptOut> {if ($y/Description/Process) then (
    <OptOutProcedure>
      <OptOutHow>{$y/Description/Process}</OptOutHow>
      <NotOptOutHow>{$y/Limitations}</NotOptOutHow>
    </OptOutProcedure>{
for $a in $y/././Where/Information
where $a/@id = $y/@whereid
return
    <OptOutLocation>
      <OptOutWhere>{$a/Description}</OptOutWhere>
      <NotOptOutWhere>{$a/Limitations}</NotOptOutWhere>
    </OptOutLocation>}{
for $b in $y/././When/Information
where $b/@id = $y/@whenid
return
```

```
        <OptOutTime>
            <OptOutWhen>{$b/Description}</OptOutWhen>
            <NotOptOutWhen>{$b/Limitations}</NotOptOutWhen>
        </OptOutTime>}
    ) else {}
    </DataSubjectOptOut>
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (4) the technologies utilized to effectuate the opt out[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProc
ess>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
for $y in $x/../DataMaintenance/How/Information
where $y/Description/Type = "Data OptOut"
and $y/../Who/Information/Description/Type = "Data subject"
return
if ($y/Description/Process) then (
  <OptOutTechnologies>{$y/Description/Technologies}</OptOutTechnologies>
) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (6) the types of personal information consumers are required to provide to verify their identities before opting out, and how the Company utilizes this verification information[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProc
ess>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/../DataMaintenance/How/Information
  where $y/Description/Type = "Data OptOut"
    and $y/../Who/Information/Description/Type = "Data subject"
  return if ($y/Description/Process) then (
  <DataSubjectOptOut>
    <OptOutProcedure>

    <VerificationInformation>{$y/Description/VerificationInformation}</VerificationInfor
mation>

    <VerificationProcess>{$y/Description/VerificationProcess}</VerificationProcess>
    </OptOutProcedure>{
  </DataSubjectOptOut>
  ) else ()}
  </Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to opt out of the collection, use, or sharing of their personal data held by the Company, describe in detail:] (8) the date on which the Company first began to give consumers the ability to opt out[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOutProcess>{$x/How/Information/EthicalConsiderations/OptOut}</OptOutProcess>
  <DataCollectionDate>{$x/When/Information/Description/CollectionDate}</DataCollectionDate>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/../DataMaintenance/How/Information
    where $y/Description/Type = "Data OptOut"
      and $y/../Who/Information/Description/Type = "Data subject"
    return
    <DataSubjectOptOut>{
      if ($y/Description/Process) then (
        for $b in $y/../When/Information
        where $b/@id = $y/@whenid
        return
          <StartDate>{$b/Description/StartDate}</StartDate>
      ) else ()
    }
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

D. State whether consumers are able to have the Company delete their personal data from the Company's database(s). If consumers are not able to delete their personal data, state the Company's rationale for not allowing such deletions.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Deletion"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      <DeletionProcess>yes</DeletionProcess>
    ) else (
      <DeletionExplanation>{$y/Explanation}</DeletionExplanation>}}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to delete their personal data that is held by the Company, describe in detail:] (1) a step-by-step explanation of how consumers delete such personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/../DataMaintenance/How/Information
    where $y/Description/Type = "Data Deletion"
      and $y/../Who/Information/Description/Type = "Data subject"
    return
    if ($y/Description/Process) then (
      <DeletionProcess>{$y/Description/Process}</DeletionProcess>
    ) else ()}
</Result>
```


Source: FTC, Statement 6

Initial Text:

[If consumers are able to delete their personal data that is held by the Company, describe in detail:] (2) the types of personal data that consumers can and cannot delete[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/../../DataMaintenance/How/Information
  where $y/Description/Type = "Data Deletion"
    and $y/../../Who/Information/Description/Type = "Data subject"
  return
  if ($y/Description/Process) then (
    for $z in $y/../../What/Information
    where $z/@id = $y/@whatid
    return
    <DataSubjectDeletion>
      <DeletableData>{$z/Description}</DeletableData>
      <NotDeletable>{$z/Limitations}</NotDeletable>
    </DataSubjectDeletion>
  ) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to delete their personal data that is held by the Company, describe in detail:] (3) the terms and conditions for deleting personal data, including the Company's efforts to prevent reinsertion of the data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/./DataMaintenance/How/Information
  where $y/Description/Type = "Data Deletion"
    and $y/././Who/Information/Description/Type = "Data subject"
  return
  <TermsAndConditions>{$y/././LegalConsiderations//TermsAndConditions}</Terms
AndConditions>
  <DataSubjectDeletion> {if ($y/Description/Process) then (
    <DeletionProcedure>
      <DeletableHow>{$y/Description/Process}</DeletableHow>
      <NotDeletableHow>{$y/Limitations}</NotDeletableHow>
    </DeletionProcedure>{
    for $a in $y/././Where/Information
    where $a/@id = $y/@whereid
    return
    <DeletionLocation>
      <DeletableWhere>{$a/Description}</DeletableWhere>
      <NotDeletableWhere>{$a/Limitations}</NotDeletableWhere>
    </DeletionLocation>}{
    for $b in $y/././When/Information
    where $b/@id = $y/@whenid
    return
    <DeletionTime>
      <DeletableWhen>{$b/Description}</DeletableWhen>
      <NotDeletableWhen>{$b/Limitations}</NotDeletableWhen>
    </DeletionTime>}
  ) else ()}
  </DataSubjectDeletion>
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to delete their personal data that is held by the Company, describe in detail:] (5) the types of personal information consumers are required to provide to verify their identities before deleting their personal data, and how the Company utilizes this verification information[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Deletion"
      and $y/././Who/Information/Description/Type = "Data subject"
    return if ($y/Description/Process) then (
      <DataSubjectDeletion>
        <DeletionProcedure>

        <VerificationInformation>{$y/Description/VerificationInformation}</VerificationInformation>

        <VerificationProcess>{$y/Description/VerificationProcess}</VerificationProcess>
          </DeletionProcedure>{
            </DataSubjectDeletion>
          } else {}
    ) else {}
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

[If consumers are able to delete their personal data that is held by the Company, describe in detail:] (7) the date on which the Company first began to give consumers the ability to delete their personal data[.]

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Deletion"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
    <DataSubjectDeletion>{
      if ($y/Description/Process) then (
        for $b in $y/././When/Information
        where $b/@id = $y/@whenid
        return
          <StartDate>{$b/Description/StartDate}</StartDate>
      ) else ()
    }
  }
</Result>
```

Source: FTC, Statement 6

Initial Text:

E. State whether the Company charges consumers a fee for accessing, correcting, opting out, or deleting their personal data from the Company's database(s). Describe in detail: (1) the amount the Company charges consumers to access, correct, delete, or opt out; and
(2) the total revenue earned annually by the Company through such fees.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/./DataMaintenance/How/Information
  where $y/././Who/Information/Description/Type = "Data subject"
  return
  if ($y/Description/Process) then (
  <DataSubjectOperation>
    <OperationType>{$y/Description/Type}</OperationType>
    <Fee>{$y/Description/Fee}</Fee>
  </DataSubjectOperation>
  ) else ()}
</Result>
```

Source: FTC, Statement 6

Initial Text:

F. In your responses to 6.A-E., describe each and every way in which the Company's procedures relating to children and teenagers is different from the Company's procedures relating to adults.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <OptOut>

  <GeneralProcedure>{$x/How/EthicalConsiderations/OptOut/General}</GeneralProc
edure>

  <ChildProcedure>{$x/How/EthicalConsiderations/OptOut/Children}</ChildProcedure
>

  <TeenagerProcedure>{$x/How/EthicalConsiderations/OptOut/Teenager}</Teenage
rProcedure>
  </OptOut>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/./DataMaintenance/How/Information
  where $y/././Who/Information/Description/Type = "Data subject"
  return
  if ($y/Description/Process) then (
  <DataSubjectOperation>
    <OperationType>{$y/Description/Type}</OperationType>
    <GeneralProcedure>{$y/Description/Process/General}</GeneralProcedure>
    <ChildProcedure>{$y/Description/Process/Child}</ChildProcedure>

    <ChildConsiderations>{$y/EthicalConsiderations/Children}</ChildConsiderations>

    <TeenagerProcedure>{$y/Description/Process/Teenager}</TeenagerProcedure>
```

```
<TeenagerConsiderations>{$y/EthicalConsiderations/Teenager}</TeenagerConsiderations>  
</DataSubjectOperation>  
) else {}  
</Result>
```

Source: FTC, Statement 7

Initial Text:

B. State whether the Company has (or had) any written policies or statements regarding the collection, disclosure, and use of personal data, including any policies and statements relating to the privacy or security of such data. Provide a copy of each such policy or statement, indicating for each the date on which it became effective and, if applicable, all means by which it was distributed or made available. If the policies changed at any time, please so state and describe the nature of the change and its effective time period.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Policy>{$x//Policies}</Policy>
</Result>
```


Source: FTC, Statement 7

Initial Text:

C. Identify the names and titles of the individuals at the Company who are responsible for developing and implementing any policies described in your responses to each specification.

Derived Statements/ Questions:

Derived XQueries:

```
for $x in MDSStore/DataMDS/Collection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/Who/Information
    where $y/Description/Role = "Policymaker"
    return
      <Policymaker>{$y/Description/Name}</Policymaker>
  }
</Result>

for $x in MDSStore/DataMDS/Maintenance
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/Who/Information
    where $y/Description/Role = "Policymaker"
    return
      <Policymaker>{$y/Description/Name}</Policymaker>
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/Who/Information
    where $y/Description/Role = "Policymaker"
    return
      <Policymaker>{$y/Description/Name}</Policymaker>
  }
</Result>
```

Source: GDPR, Statement 2(1)

Initial Text:

This Regulation applies to the processing of personal data wholly or partly by automated means and to the processing other than by automated means of personal data which form part of a filing system or are intended to form part of a filing system.

Derived Statements/ Questions:

Do you process personal data, and if so, do you process them automatically?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    if ($x/How/Information/Description/Type = "Automatically") then (
      <AutomatedProcessing>{$x/Why/Information/Description/Name}</AutomatedProce
ssing>
    ) else ()
  }
</Result>
```

Source: GDPR, Statement 3(1)

Initial Text:

This Regulation applies to the processing of personal data in the context of the activities of an establishment of a controller or a processor in the Union, regardless of whether the processing takes place in the Union or not.

Derived Statements/ Questions:

Where are processors and controllers of the personal data processing based?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Controllers>{
    for $y in $x/Who/Information
    where $y/Description/Role ="Controller"
    return
    <Controller>
      <Name>{$y/Description/Name}</Name>
      <Location>{$y/Description/Address/Country}</Location>
    </Controller>}
  </Controllers>
  <Processors>
    {for $z in $x/Who/Information
    where $z/Description/Role = "Processor"
    return
    <Processor>
      <Name>{$z/Description/Name}</Name>
      <Location>{$z/Description/Address/Country}</Location>
    </Processor>}
  </Processors>
</Result>
```

Source: GDPR, Statement 3(2)

Initial Text:

This Regulation applies to the processing of personal data of data subjects who are in the Union by a controller or processor not established in the Union, where the processing activities are related to: (a) the offering of goods or services, irrespective of whether a payment of the data subject is required, to such data subjects in the Union; or (b) the monitoring of their behaviour as far as their behaviour takes place within the Union.

Derived Statements/ Questions:

Where are the data subjects of the personal data you process located?
Are the personal data processing activities related to the offering goods or services to data subjects in the European Union?
Are the personal data processing activities related to the monitoring of data subjects behavior that takes place in the European Union?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <DataSubjects>
    <Location>{$x/What/Information/Description/Statistics/Country}
  </Location>
  </DataSubjects>
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose> {$x/Why/Information/Description/Description} </Purpose>
  <Usage> {$x/../DataUsage/Why/Information/Description/Description}
  </Usage>
</Result>
```

Source: GDPR, Statement 3(3)

Initial Text:

This Regulation applies to the processing of personal data by a controller not established in the Union, but in a place where Member State law applies by virtue of public international law.

Derived Statements/ Questions:

Is the personal data processed in a place where European Union Member State law applies by virtue of public international law?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingLocation>{$x/Where/Information/Description/Address</ProcessingLocati
on>
</Result>
```

Source: GDPR, Statement 4(1)

Initial Text:

(1) 'personal data' means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person;

Derived Statements/ Questions:

Can data subjects (natural persons) be identified directly or indirectly from your personal data set, in particular by reference to an identifier such as name, an identification number, location data, an online identifier, or factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Attributes>{$x/What/Information/Description/Attributes}
  </Attributes>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
</Result>
```

Source: GDPR, Statement 4(2)

Initial Text:

(2) 'processing' means any operation or set of operations which is performed on personal data or on sets of personal data, whether or not by automated means, such as collection, recording, organisation, structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure or destruction;

Derived Statements/ Questions:

Do you collect, record, organise, structure, store, adapt, alter, retrieve, consult, use, disclose by transmission, disseminate, align, combine, restrict, erase or destruct personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS
return
<Result>{
  for $c in $x/DataCollection
  where $c/What/Information/Description/Type="Personal data"
  return
  <DataCollection>
    <DataName>{$c/What/Information/Description/Name}</DataName>

    <CollectionOperation>{$c/How/Information/Description/Description}</CollectionOperation>
  </DataCollection>
}
{
  for $p in $x/DataProcessing
  where $p/What/Information/Description/Type="Personal data"
  return
  <DataProcessing>
    <DataName>{$p/What/Information/Description/Name}</DataName>

    <ProcessingStep>{$p/Why/Information/Description/Description}</ProcessingStep>
  </DataProcessing>
}
{
  for $m in $x/DataMaintenance
  where $m/What/Information/Description/Type="Personal data"
  return
  <DataMaintenance>
    <DataName>{$m/What/Information/Description/Name}</DataName>

    <MaintenanceOperation>{$m/Why/Information/Description/Description}</MaintenanceOperation>
  </DataMaintenance>
}
```

```
{
for $u in $x/DataUsage
where $u/What/Information/Description/Type="Personal data"
return
<DataUsage>
  <DataName>{$u/What/Information/Description/Name}</DataName>

  <UsagePurpose>{$u/Why/Information/Description/Description}</UsagePurpose>
</DataUsage>
}
</Result>
```


Source: GDPR, Statement 4(6)

Initial Text:

(6) 'filing system' means any structured set of personal data which are accessible according to specific criteria, whether centralised, decentralised or dispersed on a functional or geographical basis;

Derived Statements/ Questions:

Do you process or provide access to structured personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS
return
<Result>
  {
    for $p in $x/DataProcessing
      where $p/What/Information/Description/Type="Personal data"
        and $p/What/Information/Description/Type="Structured data"
      return
        <DataProcessing>
          <DataName>{$p/What/Information/Description/Name}</DataName>
        <ProcessingStep>{$p/Why/Information/Description/Description}</ProcessingStep>
      </DataProcessing>
    }
  {
    for $u in $x/DataUsage
      where $u/What/Information/Description/Type="Personal data"
        and $u/What/Information/Description/Type="Structured data"
      return
        <DataUsage>
          <DataName>{$u/What/Information/Description/Name}</DataName>
          <UsagePurpose>{$u/Why/Information/Description/Description}</UsagePurpose>
        </DataUsage>
    }
  }
</Result>
```

Source: GDPR, Statement 5(1)

Initial Text:

1. Personal data shall be: (a) processed lawfully, fairly and in a transparent manner in relation to the data subject ('lawfulness, fairness and transparency'); (b) collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes; further processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes shall, in accordance with Article 89(1), not be considered to be incompatible with the initial purposes ('purpose limitation'); (c) adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed ('data minimisation'); (d) accurate and, where necessary, kept up to date; every reasonable step must be taken to ensure that personal data that are inaccurate, having regard to the purposes for which they are processed, are erased or rectified without delay ('accuracy'); (e) kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed; personal data may be stored for longer periods insofar as the personal data will be processed solely for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in accordance with Article 89(1) subject to implementation of the appropriate technical and organisational measures required by this Regulation in order to safeguard the rights and freedoms of the data subject ('storage limitation'); (f) processed in a manner that ensures appropriate security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss, destruction or damage, using appropriate technical or organisational measures ('integrity and confidentiality').

Derived Statements/ Questions:

Do you process personal data lawfully? Do you process personal data fairly? Do you process personal data in a transparent manner?
Do you archive personal data? What is the purpose for archiving the personal data?
What is the purpose for collecting the personal data? How is the personal data relevant and adequate to its initial collection purpose? How accurate is the data?
How timely is the data?
What steps do you take to protect the personal data? What steps do you take to protect the personal data against unauthorised or unlawful processing? How do you prevent the personal data from being (accidentally) lost, destroyed or damaged?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <LegalConsiderations>{$x//LegalConsiderations}</LegalConsiderations>
    <Fairness>{$x/How/Information/EthicalConsiderations/Fairness}</Fairness>
</Result>
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <LegalConsiderations>{$x//LegalConsiderations}</LegalConsiderations>
```

```

    <Fairness>{$x/How/Information/EthicalConsiderations/Fairness}</Fairness>
</Result>

for $x in MDSStore/DataMDS/DataMaintenance
where $x/What/Information/Description/Type="Personal data"
    and $x/Why/Information/Description/Type="Archiving"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <MaintenanceOperation>{$x/Why/Information/Description/Description}</Maintena
nceOperation>
    <Explanation>{$x/Why/Information/Explanation/Description}</Explanation>
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Purpose>{$x/Why/Information/Description/Description}</Purpose>
    <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
    <Adequacy>{$x/What/Information/Explanation/Adequacy}</Adequacy>
</Result>

for $x in MDSStore/DataMDS/DataMaintenance
    where $x/Why/Information/Description/Type="Durability"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <MaintenanceProcess>{$x/How/Information/Description/Process}</MaintenancePro
cess>
</Result>

```

Source: GDPR, Statement 6(1)

Initial Text:

1. Processing shall be lawful only if and to the extent that at least one of the following applies: (a) the data subject has given consent to the processing of his or her personal data for one or more specific purposes; (b) processing is necessary for the performance of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract; (c) processing is necessary for compliance with a legal obligation to which the controller is subject; (d) processing is necessary in order to protect the vital interests of the data subject or of another natural person; (e) processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller; (f) processing is necessary for the purposes of the legitimate interests pursued by the controller or by a third party, except where such interests are overridden by the interests or fundamental rights and freedoms of the data subject which require protection of personal data, in particular where the data subject is a child. Point (f) of the first subparagraph shall not apply to processing carried out by public authorities in the performance of their tasks.

Derived Statements/ Questions:

Has the data subject given consent to the processing of their personal data? For what specific purposes has the data subject given consent?
Why is this data processing step necessary?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
  for $s in $x/../DataCollection
  return
  <Collection>
    <Consent>{for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
  for $s in $x/../DataCollection
  return
  <Collection>
    <Consent>{$s//Consent}</Consent>

    <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>}
</Result>
for $x in MDSStore/DataMDS/DataProcessing
```

```

where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
  for $s in $x/../DataCollection
  return
  <Collection>
    <Consent>{$s//Consent}</Consent>

    <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>}
</Result>

```

```

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>

```

```

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>{$s//Consent}</Consent>

  <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>}
</Result>

```

```

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>

```

Source: GDPR, Statement 6(4)

Initial Text:

4. Where the processing for a purpose other than that for which the personal data have been collected is not based on the data subject's consent or on a Union or Member State law which constitutes a necessary and proportionate measure in a democratic society to safeguard the objectives referred to in Article 23(1), the controller shall, in order to ascertain whether processing for another purpose is compatible with the purpose for which the personal data are initially collected, take into account, inter alia: (a) any link between the purposes for which the personal data have been collected and the purposes of the intended further processing; (b) the context in which the personal data have been collected, in particular regarding the relationship between data subjects and the controller; (c) the nature of the personal data, in particular whether special categories of personal data are processed, pursuant to Article 9, or whether personal data related to criminal convictions and offences are processed, pursuant to Article 10; (d) the possible consequences of the intended further processing for data subjects; (e) the existence of appropriate safeguards, which may include encryption or pseudonymisation.

Derived Statements/ Questions:

What was the context in which the personal data have been collected? What was the relationship between data subjects and the controller?
What is the nature of the collected personal data? Are special categories of personal data being processed?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <CollectionContext>

  <CollectionLocation>{$x/Where/Information/Description/Collection}</CollectionLocation>

  <CollectionTime>{$x/When/Information/Description/Collection}</CollectionTime>
  <Other>{$x/How/Information/Description/Context}</Other>
</CollectionContext>
<Relationships>
  {
  for $c in $x/Who/Information
  where $c/Description/Role = "Controller"
  return
  <ControllerRels>{$c/Description/Relationships}</ControllerRels>
  }
  {
  for $d in $x/Who/Information
  where $d/Description/Role = "Data subject"
```

```
        return
        <DataSubjectRels>{$d/Description/Relationships}</DataSubjectRels>
    }
</Relationships>
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <DataType>{$x/What/Information/Description/Type}</DataType>
    <Categories>{$x/What/Information/Description/Categories}</Categories>
</Result>
```

Source: GDPR, Statement 7(1)

Initial Text:

1. Where processing is based on consent, the controller shall be able to demonstrate that the data subject has consented to processing of his or her personal data.

Derived Statements/ Questions:

Where is proof that the data subject has consented to processing of their personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Consent>{$x//Consent}</Consent>
  <ConsentProof>{$x/How/Information/Explanation/ConsentProof}</ConsentProof>
</Result>
```


Source: GDPR, Statement 7(2)

Initial Text:

2.If the data subject's consent is given in the context of a written declaration which also concerns other matters, the request for consent shall be presented in a manner which is clearly distinguishable from the other matters, in an intelligible and easily accessible form, using clear and plain language. Any part of such a declaration which constitutes an infringement of this Regulation shall not be binding.

Derived Statements/ Questions:

How was consent requested from the data subject?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Consent>{$x//Consent}</Consent>
  <ConsentProcedure>{$x/How/Information/Description/ConsentProcedure}</Consent
tProcedure>
</Result>
```

Source: GDPR, Statement 7(3)

Initial Text:

3. The data subject shall have the right to withdraw his or her consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. Prior to giving consent, the data subject shall be informed thereof. It shall be as easy to withdraw as to give consent.

Derived Statements/ Questions:

How can a data subject withdraw their consent? How does this process look like? How was consent requested from the data subject? Was the data subject informed about their right to withdraw their consent beforehand?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Consent>{$x//Consent}</Consent>
  <ConsentProcedure>{$x/How/Information/Description/ConsentProcedure}</Consent
tProcedure>
  {
  for $m in $x/../DataMaintenance
  where $m/Why/Information/Description/Type = "Withdraw consent"
  return
  <WithdrawConsent>{$m/How/Information/Description/Process}</WithdrawConsent
  >
  }
</Result>
```

Source: GDPR, Statement 7(4)

Initial Text:

4. When assessing whether consent is freely given, utmost account shall be taken of whether, inter alia, the performance of a contract, including the provision of a service, is conditional on consent to the processing of personal data that is not necessary for the performance of that contract.

Derived Statements/ Questions:

To which processing of which personal data has the data subject consented?
What personal data is needed to fulfil the purpose for which personal data is collected?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
for $s in $x/../DataCollection
return
  <Collection>
    <Consent>{$s//Consent}</Consent>

    <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>

    <Necessity>{$s/Why/Information/Description/Explanation/Necessity}</Necessity>
  </Collection>}
</Result>
```

Source: GDPR, Statement 8(1)

Initial Text:

1. Where point (a) of Article 6(1) applies, in relation to the offer of information society services directly to a child, the processing of the personal data of a child shall be lawful where the child is at least 16 years old. Where the child is below the age of 16 years, such processing shall be lawful only if and to the extent that consent is given or authorised by the holder of parental responsibility over the child.

Derived Statements/ Questions:

Does the personal data contain information on children below the age of 16 years?
Does the personal data contain information on children above the age of 16 years?
Was consent given by the parents of the children below the age of 16 years? What is the process for obtaining consent for personal data from children below the age of 16 years?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Children>{$x/What/Information/Description/Statistics/Age}</Children>
  <ChildrenExplanation>{$x/What/Information/Explanation/Children}</ChildrenExplanation>
  <ChildrenConsideration>{$x/What/Information/EthicalConsiderations/Children}</ChildrenConsideration>
  <ChildrenCollection>{$x/How/Information/Process/Children}</ChildrenCollection>
</Result>
```

Source: GDPR, Statement 8(2)

Initial Text:

2. The controller shall make reasonable efforts to verify in such cases that consent is given or authorised by the holder of parental responsibility over the child, taking into consideration available technology.

Derived Statements/ Questions:

What is the process for obtaining consent for personal data from children below the age of 16 years?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Children>{$x/What/Information/Description/Statistics/Age}</Children>
  <ChildrenExplanation>{$x/What/Information/Explanation/Children}</ChildrenExplanation>
  <ChildrenConsideration>{$x/What/Information/EthicalConsiderations/Children}</ChildrenConsideration>
  <ChildrenCollection>{$x/How/Information/Process/Children}</ChildrenCollection>
</Result>
```

Source: GDPR, Statement 9(1)

Initial Text:

1.Processing of personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and the processing of genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation shall be prohibited.

Derived Statements/ Questions:

Do you process personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and the processing of genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Categories>{$x/What/Information/Description/Categories}</Categories>
  <Attributes>{$x/What/Information/Description/Attributes}
  </Attributes>
  <Health>{$x/What/Information/EthicalConsiderations/Health}</Health>
  <Sexuality>{$x/What/Information/EthicalConsiderations/Sexuality}</Sexuality>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
</Result>
```

Source: GDPR, Statement 9(2)

Initial Text:

2.Paragraph 1 shall not apply if one of the following applies: (a) the data subject has given explicit consent to the processing of those personal data for one or more specified purposes, except where Union or Member State law provide that the prohibition referred to in paragraph 1 may not be lifted by the data subject; (b) processing is necessary for the purposes of carrying out the obligations and exercising specific rights of the controller or of the data subject in the field of employment and social security and social protection law in so far as it is authorised by Union or Member State law or a collective agreement pursuant to Member State law providing for appropriate safeguards for the fundamental rights and the interests of the data subject; (c) processing is necessary to protect the vital interests of the data subject or of another natural person where the data subject is physically or legally incapable of giving consent; (d) processing is carried out in the course of its legitimate activities with appropriate safeguards by a foundation, association or any other not-for-profit body with a political, philosophical, religious or trade union aim and on condition that the processing relates solely to the members or to former members of the body or to persons who have regular contact with it in connection with its purposes and that the personal data are not disclosed outside that body without the consent of the data subjects; (e) processing relates to personal data which are manifestly made public by the data subject; (f) processing is necessary for the establishment, exercise or defence of legal claims or whenever courts are acting in their judicial capacity; (g) processing is necessary for reasons of substantial public interest, on the basis of Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject; (h) processing is necessary for the purposes of preventive or occupational medicine, for the assessment of the working capacity of the employee, medical diagnosis, the provision of health or social care or treatment or the management of health or social care systems and services on the basis of Union or Member State law or pursuant to contract with a health professional and subject to the conditions and safeguards referred to in paragraph 3; (i) processing is necessary for reasons of public interest in the area of public health, such as protecting against serious cross-border threats to health or ensuring high standards of quality and safety of health care and of medicinal products or medical devices, on the basis of Union or Member State law which provides for suitable and specific measures to safeguard the rights and freedoms of the data subject, in particular professional secrecy; (j) processing is necessary for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in accordance with Article 89(1) based on Union or Member State law which shall be proportionate to the aim pursued, respect the essence of the right to data protection and provide for suitable and specific measures to safeguard the fundamental rights and the interests of the data subject.

Derived Statements/ Questions:

For the processing of which personal data has the data subject given their explicit consent?

Is the purpose of data processing related to the field of employment, social security, or social protection law? What is the purpose of the data processing? Why is the processing step necessary for this purpose?

Has the personal data been collected from public information disclosed by the data subject? Where has the personal data been collected from?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
    for $s in $x/../DataCollection
    return
    <Collection>
      <Consent>{$s//Consent}</Consent>

    <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
  }
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalUsage>{$x/How/Information/LegalConsiderations/Consent}</LegalUsage>{
    for $s in $x/../DataCollection
    return
    <Collection>
      <Consent>{$s//Consent}</Consent>

    <LegalStatements>{$s/What/Information/LegalConsiderations}</LegalStatements>
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
```



```
</Result>nformation/LegalConsiderations}</LegalStatements>
  </Collection>}
</Result>
```

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>
```

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Source>{$x/Where/Information/Description/Type = "Source"}</Source>
</Result>
```

Source: GDPR, Statement 9(3)

Initial Text:

3. Personal data referred to in paragraph 1 may be processed for the purposes referred to in point (h) of paragraph 2 when those data are processed by or under the responsibility of a professional subject to the obligation of professional secrecy under Union or Member State law or rules established by national competent bodies or by another person also subject to an obligation of secrecy under Union or Member State law or rules established by national competent bodies.

Derived Statements/ Questions:

Who is processing the personal data? What legitimations does the person processing the personal data have?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
    for $p in $x/Who/Information
    where $p/Description/Type = "Processor"
    }
  <Processor>
    <Name>{$p/Description/Name}</Name>
    <Legitimation>{$p/LegalConsiderations}</Legitimation>
  </Processor>
</Result>
```

Source: GDPR, Statement 10()

Initial Text:

Processing of personal data relating to criminal convictions and offences or related security measures based on Article 6(1) shall be carried out only under the control of official authority or when the processing is authorised by Union or Member State law providing for appropriate safeguards for the rights and freedoms of data subjects. Any comprehensive register of criminal convictions shall be kept only under the control of official authority.

Derived Statements/ Questions:

Does the processed personal data contain information relating to criminal convictions and offences? Who has control of the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Criminals>{$x/What/Information/EthicalConsiderations/Criminals}</Criminals>
  {
    for $c in $x/Who/Information
    where $c/Description/Role="Controller"
    return
    <Controller>{$c/Description/Name}</Controller>
  }
</Result>
```

Source: GDPR, Statement 11(1)

Initial Text:

1.If the purposes for which a controller processes personal data do not or do no longer require the identification of a data subject by the controller, the controller shall not be obliged to maintain, acquire or process additional information in order to identify the data subject for the sole purpose of complying with this Regulation.

Derived Statements/ Questions:

Why has information in addition to the personal data been collected, maintained or processed? Can the data subjects be identified from the set of personal data? Does the processing step require the identification of a data subject in the personal data set?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
</Result>

for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
```

```
        <Identification>{$x/How/Information/EthicalConsiderations/Identification}</Identific
ation>
</Result>
```

```
for $x in MDSStore/DataMDS/DataMaintenance
return
```

```
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
</Result>
```

```
for $x in MDSStore/DataMDS/DataUsage
return
```

```
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
  <Identification>{$x/How/Information/EthicalConsiderations/Identification}</Identific
ation>
</Result>
```

Source: GDPR, Statement 11(2)

Initial Text:

2. Where, in cases referred to in paragraph 1 of this Article, the controller is able to demonstrate that it is not in a position to identify the data subject, the controller shall inform the data subject accordingly, if possible. In such cases, Articles 15 to 20 shall not apply except where the data subject, for the purpose of exercising his or her rights under those articles, provides additional information enabling his or her identification.

Derived Statements/ Questions:

Is it possible to identify data subjects from the personal data? If not, demonstrate why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Attributes>{$x/What/Information/Description/Attributes}
  </Attributes>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
  <Counterevidence>{$x/What/Information/Explanation/Identifiability/Countereviden
ce}</Counterevidence>
</Result>
```

Source: GDPR, Statement 13(1)

Initial Text:

1. Where personal data relating to a data subject are collected from the data subject, the controller shall, at the time when personal data are obtained, provide the data subject with all of the following information: (a) the identity and the contact details of the controller and, where applicable, of the controller's representative; (b) the contact details of the data protection officer, where applicable; (c) the purposes of the processing for which the personal data are intended as well as the legal basis for the processing; (d) where the processing is based on point (f) of Article 6(1), the legitimate interests pursued by the controller or by a third party; (e) the recipients or categories of recipients of the personal data, if any; (f) where applicable, the fact that the controller intends to transfer personal data to a third country or international organisation and the existence or absence of an adequacy decision by the Commission, or in the case of transfers referred to in Article 46 or 47, or the second subparagraph of Article 49(1), reference to the appropriate or suitable safeguards and the means by which to obtain a copy of them or where they have been made available.

Derived Statements/ Questions:

Who was the controller who obtained the personal data from the data subjects? Describe his identity and contact information.
Who was the representative of the controller who obtained the personal information from the data subjects?
What is the purpose of processing the personal data? Why is the personal data collected? What is the legal basis for processing the data?
Is the data intended to be transferred? Where to is the data intended to be transferred?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
    for $c in $x/Who/Information
    where $c/Description/Role="Controller"
    return
    <Controller>
      <Name>{$c/Description/Name}</Name>
      <Contact>{$c/Description/Contact}</Contact>
    </Controller>
  }
  {
    for $d in $x/Who/Information
    where $d/Description/Role="Controller representative"
    return
    <ControllerRepresentative>
      <Name>{$d/Description/Name}</Name>
```

```

        <Contact>{$d/Description/Contact}</Contact>
    </ControllerRepresentative>
    }
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
    <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
    <LegalBasis>{$x/Why/Information/Description/LegalConsiderations}</LegalBasis>
    <CollectionPurpose>{$x/../DataCollection/Why/Information/Description}</Collection
Purpose>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Usage>{$x/Why/Information/Description/Description}</Usage>
    <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
    <LegalBasis>{$x/Why/Information/Description/LegalConsiderations}</LegalBasis>
    <CollectionPurpose>{$x/../DataCollection/Why/Information/Description}</Collection
Purpose>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Usage>{$x/Why/Information/Description/Description}</Usage>
    {
    for $t in $x/Who/Information
    where $t/Description/Role="Transferred to"
    return
    <TransferredTo>{$t/Description/Name}</TransferredTo>
    }
</Result>

```


Source: GDPR, Statement 13(2)

Initial Text:

2. In addition to the information referred to in paragraph 1, the controller shall, at the time when personal data are obtained, provide the data subject with the following further information necessary to ensure fair and transparent processing: (a) the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period; (b) the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject or to object to processing as well as the right to data portability; (c) where the processing is based on point (a) of Article 6(1) or point (a) of Article 9(2), the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal; (d) the right to lodge a complaint with a supervisory authority; (e) whether the provision of personal data is a statutory or contractual requirement, or a requirement necessary to enter into a contract, as well as whether the data subject is obliged to provide the personal data and of the possible consequences of failure to provide such data; (f) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

Derived Statements/ Questions:

For how long is the personal data intended to be stored? When was the personal data obtained? When will or was the personal data deleted? What are the criteria for deleting personal data?
How was the data subject informed about the right to rectification? How was the data subject informed about the right to erasure? How was the data subject informed about the right to data portability? What is the process for rectifying data? What is the process for erasing data? How can data be transferred to another controller (right to data portability)?
How is the data obtained from the data subject?
What is the intended use of the personal data? Is the personal data being used for automated decision-making? Is the personal data being used for profiling?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintennace
where $x/What/Information/Description/Type="Personal data"
    and $x/Why/Information/Description/Type="Deletion"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Deletiondate>{$x/When/Information/Description/Date}</Deletiondate>
    <Collectiondate>{$x/../DataUsage/When/Information/Description/Collection}</Collectiondate>
    <Deletioncriteria>{$x/How/Information/Description/Criteria}</Deletioncriteria>
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
```

```

return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Informed>{$x/How/Information/Description/Mirandize}</Informed>
  <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
  <CollectionPurpose>{$x/Why/Information/Description/Description}</CollectionPurp
ose>
</Result>

for $x in MDSStore/DataMDS/DataMaintenance
where $x/What/Information/Description/Type="Personal data"
  and $x/Who/Information/Description/Activator = "Data subject"
return
<Result>
  {
  for $m in $x/Why/Information
  return
  if ($m/Description/Type="Rectification") then (
  <RectificationProcess>{$m/../../How/Information/Description/Process}</Rectificatio
nProcess>
  ) else ()
  if ($m/Description/Type="Deletion") then (
  <DeletionProcess>{$m/../../How/Information/Description/Process}</DeletionProcess
>
  ) else ()
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
</Result>

```

Source: GDPR, Statement 13(3)

Initial Text:

3. Where the controller intends to further process the personal data for a purpose other than that for which the personal data were collected, the controller shall provide the data subject prior to that further processing with information on that other purpose and with any relevant further information as referred to in paragraph 2.

Derived Statements/ Questions:

What is the personal data being used for? What was the personal data intended to be used for?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <IntendedPurpose>{$x/../../DataCollection/Why/Information/Description/Description}
</IntendedPurpose>
</Result>
```

Source: GDPR, Statement 14(1)

Initial Text:

1. Where personal data have not been obtained from the data subject, the controller shall provide the data subject with the following information: (a) the identity and the contact details of the controller and, where applicable, of the controller's representative; (b) the contact details of the data protection officer, where applicable; (c) the purposes of the processing for which the personal data are intended as well as the legal basis for the processing; (d) the categories of personal data concerned; (e) the recipients or categories of recipients of the personal data, if any; (f) where applicable, that the controller intends to transfer personal data to a recipient in a third country or international organisation and the existence or absence of an adequacy decision by the Commission, or in the case of transfers referred to in Article 46 or 47, or the second subparagraph of Article 49(1), reference to the appropriate or suitable safeguards and the means to obtain a copy of them or where they have been made available.

Derived Statements/ Questions:

How has the personal data been obtained? Who was the controller obtaining the personal data? Who was the controller's representative when obtaining the personal data? Describe their identity and contact details.
Who is the responsible data protection officer? Describe their contact details.
What is the intended purpose for processing the personal data? What is the legal basis for processing the personal data? What information was given to the data subjects when asking them for consent?
What categories of personal data are being processed?
Who are the recipients of the personal data? Who are the categories of recipients of the personal data? Who is the data intended to be given to?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <CollectionProcess>{$x/What/Information/Description/Process}</CollectionProcess>
  {
  for $c in $x/Who/Information
  return
  if ($c/Description/Role="Controller") then(
  <Controller>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </Controller>
  ) else ()
  if ($c/Description/Role="Controller representative") then(
  <ControllerRepresentative>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </ControllerRepresentative>
```

```

        ) else ()
        }
</Result>

for $x in MDSStore/DataMDS//What/Information
where $x/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/Description/Name}</DataName>
  {
    for $c in ../Who/Information
    return
    <DataProtectionOfficer>
      <Name>{$c/Description/Name}</Name>
      <Contact>{$c/Description/Contact}</Contact>
    </DataProtectionOfficer>
  }
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <LegalBasis>{$x/Why/Information/Description/LegalConsiderations}</LegalBasis>
  <CollectionPurpose>{$x/../DataCollection/Why/Information/Description}</Collection
Purpose>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Purpose>{$x/Why/Information/Description/Explanation/Purpose}</Purpose>
  <LegalBasis>{$x/Why/Information/Description/LegalConsiderations}</LegalBasis>
  <CollectionPurpose>{$x/../DataCollection/Why/Information/Description}</Collection
Purpose>
</Result>

for $x in MDSStore/DataMDS/DataCollection
return
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>

```

```
        </Collection>}
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Categories>{$x/What/Information/Description/Categories}</Categories>
</Result>

for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Type="Recipient"
return
<Result>
    <Recipient>{$x/Description/Name}</Recipient>
</Result>
```

Source: GDPR, Statement 14(2)

Initial Text:

2. In addition to the information referred to in paragraph 1, the controller shall provide the data subject with the following information necessary to ensure fair and transparent processing in respect of the data subject: (a) the period for which the personal data will be stored, or if that is not possible, the criteria used to determine that period; (b) where the processing is based on point (f) of Article 6(1), the legitimate interests pursued by the controller or by a third party; (c) the existence of the right to request from the controller access to and rectification or erasure of personal data or restriction of processing concerning the data subject and to object to processing as well as the right to data portability; (d) where processing is based on point (a) of Article 6(1) or point (a) of Article 9(2), the existence of the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal; (e) the right to lodge a complaint with a supervisory authority; (f) from which source the personal data originate, and if applicable, whether it came from publicly accessible sources; (g) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

Derived Statements/ Questions:

What information was given to the data subject, when asking them for their consent? For how long is the personal data intended to be stored? When was the personal data obtained? When will or was the personal data deleted? What are the criteria for deleting personal data?

What are the legitimate interests of the controller for obtaining the data? What are the legitimate interests of the controller for processing the data?

How was the data subject informed about the right to rectification? How was the data subject informed about the right to erasure? How was the data subject informed about the right to data portability? What is the process for rectifying data? What is the process for erasing data? How can data be transferred to another controller (right to data portability)?

How is the data obtained from the data subject?

What is the intended use of the personal data? Is the personal data being used for automated decision-making? Is the personal data being used for profiling?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>
</Result>
```

```
for $x in MDSStore/DataMDS/DataMaintennace
where $x/What/Information/Description/Type="Personal data"
    and $x/Why/Information/Description/Type="Deletion"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Deletiondate>{$x/When/Information/Description/Date}</Deletiondate>
    <Collectiondate>{$x/../DataUsage/When/Information/Description/Collection}</Colle
ctiondate>
    <Deletioncriteria>{$x/How/Information/Description/Criteria}</Deletioncriteria>
</Result>
```

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Informed>{$x/How/Information/Description/Mirandize}</Informed>
    <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
    <CollectionPurpose>{$x/Why/Information/Description/Description}</CollectionPurp
ose>
</Result>
```

```
for $x in MDSStore/DataMDS/DataCollection/Why/Information
where $x/../../What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/../../What/Information/Description/Name}</DataName>
    <LegalCollection>{$x/LegalConsiderations}</LegalCollection>
</Result>
```

```
for $x in MDSStore/DataMDS/DataProcessing/Why/Information
where $x/../../What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/../../What/Information/Description/Name}</DataName>
    <LegalProcessing>{$x/LegalConsiderations}</LegalProcessing>
</Result>
```

```
for $x in MDSStore/DataMDS/DataUsage/Why/Information
where $x/../../What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/../../What/Information/Description/Name}</DataName>
    <LegalUsage>{$x/LegalConsiderations}</LegalUsage>
</Result>
```

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/What/Information/Description/Type="Personal data"
    and $x/Who/Information/Description/Activator = "Data subject"
```



```

return
<Result>
  {
  for $m in $x/Why/Information
  return
  if ($m/Description/Type="Rectification") then (
    <RectificationProcess>{$m/../../How/Information/Description/Process}</Rectificatio
nProcess>
  ) else ()
  if ($m/Description/Type="Deletion") then (
    <DeletionProcess>{$m/../../How/Information/Description/Process}</DeletionProcess
>
  ) else ()
  }
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
</Result>

```

Source: GDPR, Statement 15(1)

Initial Text:

1. The data subject shall have the right to obtain from the controller confirmation as to whether or not personal data concerning him or her are being processed, and, where that is the case, access to the personal data and the following information: (a) the purposes of the processing; (b) the categories of personal data concerned; (c) the recipients or categories of recipient to whom the personal data have been or will be disclosed, in particular recipients in third countries or international organisations; (d) where possible, the envisaged period for which the personal data will be stored, or, if not possible, the criteria used to determine that period; (e) the existence of the right to request from the controller rectification or erasure of personal data or restriction of processing of personal data concerning the data subject or to object to such processing; (f) the right to lodge a complaint with a supervisory authority; (g) where the personal data are not collected from the data subject, any available information as to their source; (h) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

Derived Statements/ Questions:

What is the process for data subjects to obtain from the controller confirmation as to whether or not personal data concerning them are being processed? What information is given to data subjects who enquire information as to whether or not personal data concerning them are being processed?
What is the purpose of processing the personal data? What are the categories of personal data processed? What are the categories of personal data obtained?
Who are the recipients to whom the personal data have been disclosed? Who are the recipients to whom the personal data will be disclosed? Who are the categories of recipients to whom the personal data have been disclosed? Who are the categories of recipients to whom the personal data will be disclosed?
Until when is the personal data being stored? What are the criteria for deleting personal data? What is the process for deleting personal data?
Where was the personal data obtained from?
Was the personal data being used for automated decision-making?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  for $y in $x/./DataMaintenance/How/Information
  where $y/Description/By = "Data subject"
  return
  <AccessProcess>{$y/Description/Process}</AccessProcess>
}
</Result>

for $x in MDSStore/DataMDS/DataUsage
```

```

where $x/What/Information/Description/Type="Personal data"
    and $x/Who/Information/Description/Type="Data subject"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <AccessProcess>{$y/Description/Process}</AccessProcess>
    }
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
    <ProcessingPurpose>{$x/Why/Information/Description/Explanation/Purpose}</Proc
essingPurpose>
    <Categories>{$x/What/Information/Description/Categories}</Categories>
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Categories>{$x/What/Information/Description/Categories}</Categories>
</Result>

for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/../../What/Information/Description/Type="Personal data"
    and $x/Description/Type="Recipient"
return
<Result>
    <DataName>{$x/../../What/Information/Description/Name}</DataName>
    {if ($x/When/Description/StartDate <getDate()) then
    (<PastRecipient>{$x/Description/Name}</PastRecipient>) else
    (<FutureRecipient>{$x/Description/Name}</FutureRecipient>)
    }
</Result>

for $x in MDSStore/DataMDS/DataMaintennace
where $x/What/Information/Description/Type="Personal data"
    and $x/Why/Information/Description/Type="Deletion"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Deletiondate>{$x/When/Information/Description/Date}</Deletiondate>

```

```
        <Collectiondate>{$x/../../DataUsage/When/Information/Description/Collection}</Collectiondate>
        <Deletioncriteria>{$x/How/Information/Description/Criteria}</Deletioncriteria>
    </Result>

for $x in MDSStore/DataMDS/DataCollection/Where/Information
where $x/../../What/Information/Description/Type="Personal data"
    and $x/Description/Type="Source"
return
<Result>
    <DataName>{$x/../../What/Information/Description/Name}</DataName>
    <Source>{$x/Description/Description}</Source>
</Result>

for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Usage>{$x/Why/Information/Description/Description}</Usage>
</Result>
```

Source: GDPR, Statement 15(2)

Initial Text:

2. Where personal data are transferred to a third country or to an international organisation, the data subject shall have the right to be informed of the appropriate safeguards pursuant to Article 46 relating to the transfer.

Derived Statements/ Questions:

Was the personal data transferred to a third country or to an international organisation? Who was the personal data transferred to? What is the process of informing the data subjects about transfers of their data to a third country or to an international organisation?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {
    for $t in $x/Who/Information
    where $t/Description/Role="Transferred to"
    return
    <TransferredTo>
      <Name>{$t/Description/Name}</Name>
      <Country>{$t/Description/Address/Country}</Country>
    </TransferredTo>
  }
</Result>
```

Source: GDPR, Statement 15(3)

Initial Text:

3. The controller shall provide a copy of the personal data undergoing processing. For any further copies requested by the data subject, the controller may charge a reasonable fee based on administrative costs. Where the data subject makes the request by electronic means, and unless otherwise requested by the data subject, the information shall be provided in a commonly used electronic form.

Derived Statements/ Questions:

Is there a fee for data copies requested by the data subject? If there is a fee how much is it?

How is a request for data copies posed by a data subject answered?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
    and $x/Who/Information/Description/Type = "Data subject"
    and $x/Why/Information/Description/Type = "Information request"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <RequestProcess>{$x/How/Information/Description/Process}</CorrectionProcess>
</Result>
```

Source: GDPR, Statement 16()

Initial Text:

The data subject shall have the right to obtain from the controller without undue delay the rectification of inaccurate personal data concerning him or her. Taking into account the purposes of the processing, the data subject shall have the right to have incomplete personal data completed, including by means of providing a supplementary statement.

Derived Statements/ Questions:

How can the data subject rectify their personal data in the hands of the controller?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Correction"
      and $y/././Who/Information/Description/Type = "Data subject"
    return
      <CorrectionProcess>{$y/Description/Process}</CorrectionProcess>
  }
</Result>
```

Source: GDPR, Statement 17(1)

Initial Text:

1. The data subject shall have the right to obtain from the controller the erasure of personal data concerning him or her without undue delay and the controller shall have the obligation to erase personal data without undue delay where one of the following grounds applies: (a) the personal data are no longer necessary in relation to the purposes for which they were collected or otherwise processed; (b) the data subject withdraws consent on which the processing is based according to point (a) of Article 6(1), or point (a) of Article 9(2), and where there is no other legal ground for the processing; (c) the data subject objects to the processing pursuant to Article 21(1) and there are no overriding legitimate grounds for the processing, or the data subject objects to the processing pursuant to Article 21(2); (d) the personal data have been unlawfully processed; (e) the personal data have to be erased for compliance with a legal obligation in Union or Member State law to which the controller is subject; (f) the personal data have been collected in relation to the offer of information society services referred to in Article 8(1).

Derived Statements/ Questions:

What is the process for data subjects to request the erasure of personal data? What is the process for erasing personal data in general?
What are the criteria for deleting personal data? How can the data subject withdraw consent?
What is the legal ground for processing the personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/./DataMaintenance/How/Information
    where $y/Description/Type = "Data Deletion"
    return
      <Deletion>
        {if ($y/./Who/Information/Description/Type = "Data subject") then (
          <Activator>Data subject</Activator>) else (
            <Activator>In General</Activator>)}
          <DeletionProcess>$y/Description/Criteria</DeletionProcess>
          <DeletionCriteria></DeletionCriteria>
        </Deletion>
      }
  }
</Result>

for $x in MDSStore/DataMDS/DataProcessing/Why/Information
where $x/./What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/./What/Information/Description/Name}</DataName>
```


<LegalProcessing>{\$x/LegalConsiderations}</LegalProcessing>
</Result>

Source: GDPR, Statement 17(2)

Initial Text:

2. Where the controller has made the personal data public and is obliged pursuant to paragraph 1 to erase the personal data, the controller, taking account of available technology and the cost of implementation, shall take reasonable steps, including technical measures, to inform controllers which are processing the personal data that the data subject has requested the erasure by such controllers of any links to, or copy or replication of, those personal data.

Derived Statements/ Questions:

Is the personal data publicly available? How are other controllers using the personal data notified if data is erased?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/How/Information
where $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  {if ($x/Limitations/Access="None") then (
    <Access>Unlimited</Access>) else (
    <AccessLimitations>{$x/Limitations/Access}</AccessLimitations>
  )}
</Result>

for $x in MDSStore/DataMDS/DataMaintenance
where $x/What/Information/Description/Type="Personal data"
and $x/Why/Information/Description/Type = "Deletion"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Notification>{$x/How/Information/Description/Process/Notification}</Notification>
</Result>
```

Source: GDPR, Statement 17(3)

Initial Text:

3.Paragraphs 1 and 2 shall not apply to the extent that processing is necessary: (a) for exercising the right of freedom of expression and information; (b) for compliance with a legal obligation which requires processing by Union or Member State law to which the controller is subject or for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller; (c) for reasons of public interest in the area of public health in accordance with points (h) and (i) of Article 9(2) as well as Article 9(3); (d) for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes in accordance with Article 89(1) in so far as the right referred to in paragraph 1 is likely to render impossible or seriously impair the achievement of the objectives of that processing; or (e) for the establishment, exercise or defence of legal claims.

Derived Statements/ Questions:

What is the reason for not erasing the data?

Derived XQueries:

Source: GDPR, Statement 18(1)

Initial Text:

1. The data subject shall have the right to obtain from the controller restriction of processing where one of the following applies: (a) the accuracy of the personal data is contested by the data subject, for a period enabling the controller to verify the accuracy of the personal data; (b) the processing is unlawful and the data subject opposes the erasure of the personal data and requests the restriction of their use instead; (c) the controller no longer needs the personal data for the purposes of the processing, but they are required by the data subject for the establishment, exercise or defence of legal claims; (d) the data subject has objected to processing pursuant to Article 21(1) pending the verification whether the legitimate grounds of the controller override those of the data subject.

Derived Statements/ Questions:

How accurate is the personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/What/Information
where $x/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/Description/Name}</DataName>
  <Accuracy>{$x/Description/Quality/Accuracy}</Accuracy>
</Result>
```

Source: GDPR, Statement 18(2)

Initial Text:

2. Where processing has been restricted under paragraph 1, such personal data shall, with the exception of storage, only be processed with the data subject's consent or for the establishment, exercise or defence of legal claims or for the protection of the rights of another natural or legal person or for reasons of important public interest of the Union or of a Member State.

Derived Statements/ Questions:

What is the data processed for? What processing did the data subject give consent to?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <ProcessingPurpose>{$x/Why/Information/Description/Explanation/Purpose}</Proc
essingPurpose>
  <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>
</Result>
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>
</Result>
```

Source: GDPR, Statement 19()

Initial Text:

The controller shall communicate any rectification or erasure of personal data or restriction of processing carried out in accordance with Article 16, Article 17(1) and Article 18 to each recipient to whom the personal data have been disclosed, unless this proves impossible or involves disproportionate effort. The controller shall inform the data subject about those recipients if the data subject requests it.

Derived Statements/ Questions:

What is the process for communicating any rectification or erasure of personal data, or restriction of processing to everyone who is processing the data?
If those to whom the personal data have been disclosed are not notified, explain why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/What/Information/Description/Type="Personal data"
    and $x/Why/Information/Description/Type = "Deletion"
return
<Result>
    <DataName>{$x/What/Information/Description/Name}</DataName>
    <Notification>{$x/How/Information/Description/Process/Notification}</Notification>
</Result>
```

Source: GDPR, Statement 21(1)

Initial Text:

1. The data subject shall have the right to object, on grounds relating to his or her particular situation, at any time to processing of personal data concerning him or her which is based on point (e) or (f) of Article 6(1), including profiling based on those provisions. The controller shall no longer process the personal data unless the controller demonstrates compelling legitimate grounds for the processing which override the interests, rights and freedoms of the data subject or for the establishment, exercise or defence of legal claims.

Derived Statements/ Questions:

How can a data subject withdraw their consent? How does this process look like? How was consent requested from the data subject? Was the data subject informed about their right to withdraw their consent beforehand?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Consent>{$x//Consent}</Consent>
  <ConsentProcedure>{$x/How/Information/Description/ConsentProcedure}</Consent
tProcedure>
  <Informed>{$x/How/Information/Description/Mirandize}</Informed>
  {
    for $m in $x/../DataMaintenance
    where $m/Why/Information/Description/Type = "Withdraw consent"
    return
      <WithdrawConsent>{$m/How/Information/Description/Process}</WithdrawConsent
  }
</Result>
```

Source: GDPR, Statement 21(2)

Initial Text:

2. Where personal data are processed for direct marketing purposes, the data subject shall have the right to object at any time to processing of personal data concerning him or her for such marketing, which includes profiling to the extent that it is related to such direct marketing.

Derived Statements/ Questions:

For what purposes is the personal data being processed?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <ProcessingPurpose>{$x/Why/Information/Description/Explanation/Purpose}</Proc
essingPurpose>
</Result>
```


Source: GDPR, Statement 21(3)

Initial Text:

3. Where the data subject objects to processing for direct marketing purposes, the personal data shall no longer be processed for such purposes.

Derived Statements/ Questions:

What processing steps did the data subjects give consent to? Are personal data being processed for marketing purposes even though the data subjects did not give consent for this processing purpose? If so, explain why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <ProcessingPurpose>{$x/Why/Information/Description/Explanation/Purpose}</Proc
essingPurpose>
  <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>
</Result>
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>
</Result>
```

Source: GDPR, Statement 21(6)

Initial Text:

6. Where personal data are processed for scientific or historical research purposes or statistical purposes pursuant to Article 89(1), the data subject, on grounds relating to his or her particular situation, shall have the right to object to processing of personal data concerning him or her, unless the processing is necessary for the performance of a task carried out for reasons of public interest.

Derived Statements/ Questions:

Why are the personal data being processed? Can a data subject object to processing their data? If not, explain why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {if($x/Why/Information/LegalConsiderations/Consent) then (
    <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>) else (
    <NoConsent>{$x/Why/Information/Explanation/Consent}</NoConsent>)}</Result>
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <ProcessingPurpose>{$x/Why/Information/Description/Explanation/Purpose}</Proc
essingPurpose>
  {if($x/Why/Information/LegalConsiderations/Consent) then (
    <Consent>{$x/Why/Information/LegalConsiderations/Consent}</Consent>) else (
    <NoConsent>{$x/Why/Information/Explanation/Consent}</NoConsent>)}
</Result>
```

Source: GDPR, Statement 25(1)

Initial Text:

1. Taking into account the state of the art, the cost of implementation and the nature, scope, context and purposes of processing as well as the risks of varying likelihood and severity for rights and freedoms of natural persons posed by the processing, the controller shall, both at the time of the determination of the means for processing and at the time of the processing itself, implement appropriate technical and organisational measures, such as pseudonymisation, which are designed to implement data-protection principles, such as data minimisation, in an effective manner and to integrate the necessary safeguards into the processing in order to meet the requirements of this Regulation and protect the rights of data subjects.

Derived Statements/ Questions:

What measures has the controller taken in order to protect the rights of data subjects? Is the personal data being minimized? Is the personal data pseudonymized? If no additional steps have been taken, explain why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/Why/Information
    return
      <Preprocessing>
        {if ($y/Description/Type="Minimization") then (
          <Minimization>{$y/Description/Description}</Minimization>
        ) else ()}
        {if ($y/Description/Type="Pseudonymization") then (
          <Pseudonymization>{$y/Description/Description}</Pseudonymization>
        ) else ()}
      </Preprocessing>
    <DataProtection>{$x/../DataUsage/What/Information/Description/LegalConsideratio
ns/DataProtection}</DataProtection>
  </Result>
```

Source: GDPR, Statement 25(2)

Initial Text:

2. The controller shall implement appropriate technical and organisational measures for ensuring that, by default, only personal data which are necessary for each specific purpose of the processing are processed. That obligation applies to the amount of personal data collected, the extent of their processing, the period of their storage and their accessibility. In particular, such measures shall ensure that by default personal data are not made accessible without the individual's intervention to an indefinite number of natural persons.

Derived Statements/ Questions:

Have all measures been taken in order to minimise the data in a way, that only data necessary for a specific purpose is being processed? What measures have been taken? If no measures have been taken, explain why.
Is this processing step necessary for the specific purpose? Explain why.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
  for $y in $x/Why/Information
  return
  <Preprocessing>
  {if ($y/Description/Type="Minimization") then (
  <Minimization>{$y/Description/Description}</Minimization>
  ) else ()}
  </Preprocessing>}
  <DataProtection>{$x/../DataUsage/What/Information/Description/LegalConsideratio
ns/DataProtection}</DataProtection>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
</Result>

for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Necessity>{$x/Why/Information/Description/Explanation/Necessity}</Necessity>
```

</Result>

Source: GDPR, Statement 28(2)

Initial Text:

2. The processor shall not engage another processor without prior specific or general written authorisation of the controller. In the case of general written authorisation, the processor shall inform the controller of any intended changes concerning the addition or replacement of other processors, thereby giving the controller the opportunity to object to such changes.

Derived Statements/ Questions:

Who is authorized to process the data? How is it ensured that only these authorized processors are processing the data? How can other processors contact the controller for getting authorization to process the personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Processors>{
    for $p in $x/Who/Information/
    where $p/Description/Role="Processor"
    return
    <Name>{$p/Description/Name}</Name>}
  </Processors>
  <Authorization>{$x/How/Information/Description/Authorization}</Authorization>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Processors>{
    for $p in $x/Who/Information/
    where $p/Description/Role="Processor"
    return
    <Name>{$p/Description/Name}</Name>}
  </Processors>
</Result>
```

Source: GDPR, Statement 28(3)

Initial Text:

3. Processing by a processor shall be governed by a contract or other legal act under Union or Member State law, that is binding on the processor with regard to the controller and that sets out the subject-matter and duration of the processing, the nature and purpose of the processing, the type of personal data and categories of data subjects and the obligations and rights of the controller. That contract or other legal act shall stipulate, in particular, that the processor: (a) processes the personal data only on documented instructions from the controller, including with regard to transfers of personal data to a third country or an international organisation, unless required to do so by Union or Member State law to which the processor is subject; in such a case, the processor shall inform the controller of that legal requirement before processing, unless that law prohibits such information on important grounds of public interest; (b) ensures that persons authorised to process the personal data have committed themselves to confidentiality or are under an appropriate statutory obligation of confidentiality; (c) takes all measures required pursuant to Article 32; (d) respects the conditions referred to in paragraphs 2 and 4 for engaging another processor; (e) taking into account the nature of the processing, assists the controller by appropriate technical and organisational measures, insofar as this is possible, for the fulfilment of the controller's obligation to respond to requests for exercising the data subject's rights laid down in Chapter III; (f) assists the controller in ensuring compliance with the obligations pursuant to Articles 32 to 36 taking into account the nature of processing and the information available to the processor; (g) at the choice of the controller, deletes or returns all the personal data to the controller after the end of the provision of services relating to processing, and deletes existing copies unless Union or Member State law requires storage of the personal data; (h) makes available to the controller all information necessary to demonstrate compliance with the obligations laid down in this Article and allow for and contribute to audits, including inspections, conducted by the controller or another auditor mandated by the controller. With regard to point (h) of the first subparagraph, the processor shall immediately inform the controller if, in its opinion, an instruction infringes this Regulation or other Union or Member State data protection provisions.

Derived Statements/ Questions:

How does the contract look like that processors have to sign in order for them to get access to the personal data? What specifications for the processing of the personal data were laid down in a contract? What is the subject-matter, the duration, the nature, the purpose of the processing? What is the type of the personal data and what are the categories of data subjects in the personal data? Who is processing the data? Who has published the personal data? Who gave access to the personal data to whom?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Authorization>{$x/How/Information/Description/Authorization}</Authorization>
```

```
<Usage>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <Duration>{$x/When/Information/Description/Duration}</Duration>
  <DataType>{$x/What/Information/Description/DataType}</DataType>
  <Categories>{$x/What/Information/Description/Categories}</Categories>
  {
  for $u in $x/Who/Information
  return
  <People>{
  if($u/Description/Role="Processor") then (
  <Processor>{$u/Description/Name}</Processor>) else (){
  if($u/Description/Role="Publisher") then (
  <Publisher>{$u/Description/Name}</Publisher>) else (
  )
  }
  </People>
  }
</Usage>
</Result>
```


Source: GDPR, Statement 28(4)

Initial Text:

4. Where a processor engages another processor for carrying out specific processing activities on behalf of the controller, the same data protection obligations as set out in the contract or other legal act between the controller and the processor as referred to in paragraph 3 shall be imposed on that other processor by way of a contract or other legal act under Union or Member State law, in particular providing sufficient guarantees to implement appropriate technical and organisational measures in such a manner that the processing will meet the requirements of this Regulation. Where that other processor fails to fulfil its data protection obligations, the initial processor shall remain fully liable to the controller for the performance of that other processor's obligations.

Derived Statements/ Questions:

Who gave whom the order to process the personal data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/../../What/Information/Description/Type="Personal data"
    and $x/Description/Role="Processor"
    and $x/Explanation/Order
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <Processor>{$x/Description/Name}</Processor>
  <Order>{$x/Explanation/Order}</Order>
  for $y in $x/../../Information
  where $y/@id = $x/Explanation/Order/@orderedbyid
  return
  <OrderBy>{$y/Description/Name}</OrderBy>
</Result>
```

Source: GDPR, Statement 30(1)

Initial Text:

1. Each controller and, where applicable, the controller's representative, shall maintain a record of processing activities under its responsibility. That record shall contain all of the following information: (a) the name and contact details of the controller and, where applicable, the joint controller, the controller's representative and the data protection officer; (b) the purposes of the processing; (c) a description of the categories of data subjects and of the categories of personal data; (d) the categories of recipients to whom the personal data have been or will be disclosed including recipients in third countries or international organisations; (e) where applicable, transfers of personal data to a third country or an international organisation, including the identification of that third country or international organisation and, in the case of transfers referred to in the second subparagraph of Article 49(1), the documentation of suitable safeguards; (f) where possible, the envisaged time limits for erasure of the different categories of data; (g) where possible, a general description of the technical and organisational security measures referred to in Article 32(1).

Derived Statements/ Questions:

Who were the controller, the joint controller, the controller's representative and the data officer involved in some data processing? Provide names and contact details.
What was the purpose of the data processing?
Give descriptions of the categories of data subjects and of the categories of personal data that was processed.
To whom has the personal data been or will be disclosed to?
When will the different categories of data presumably be erased?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
    for $c in $x/Who/Information
    return
    if ($c/Description/Role="Controller") then(
      <Controller>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </Controller>
    ) else ()
    if ($c/Description/Role="Controller representative") then(
      <ControllerRepresentative>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </ControllerRepresentative>
    ) else ()
```

```
if ($c/Description/Role="Joint controller") then(
<JointController>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
</JointController>
) else ()
if ($c/Description/Role="Data protection officer") then(
<DataProtectionOfficer>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
</DataProtectionOfficer>
) else ()
}
<ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
<Categories>{$x/What/Information/Description/Categories}</Categories>
</Result>

for $x in MDSStore/DataMDS/DataUsage/Who/Information
where $x/Description/Type="Recipient"
return
<Result>
    <Recipient>{$x/Description/Name}</Recipient>
</Result>
```

Source: GDPR, Statement 30(2)

Initial Text:

2. Each processor and, where applicable, the processor's representative shall maintain a record of all categories of processing activities carried out on behalf of a controller, containing: (a) the name and contact details of the processor or processors and of each controller on behalf of which the processor is acting, and, where applicable, of the controller's or the processor's representative, and the data protection officer; (b) the categories of processing carried out on behalf of each controller; (c) where applicable, transfers of personal data to a third country or an international organisation, including the identification of that third country or international organisation and, in the case of transfers referred to in the second subparagraph of Article 49(1), the documentation of suitable safeguards; (d) where possible, a general description of the technical and organisational security measures referred to in Article 32(1).

Derived Statements/ Questions:

Who were the processor(s) and the controller on behalf of which the processor is processing the data? Who were the controller's or the processor's representative, and the data protection officer involved in some data processing?
What data processing was carried out on behalf of each controller?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
    for $c in $x/Who/Information
    return
    if ($c/Description/Role="Controller") then(
      <Controller>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </Controller>
    ) else ()
    if ($c/Description/Role="Controller representative") then(
      <ControllerRepresentative>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </ControllerRepresentative>
    ) else ()
    if ($c/Description/Role="Processor") then(
      <Processor>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </Processor>
    ) else ()
```

```
if ($c/Description/Role="Processor representative") then(
  <ProcessorRepresentative>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </ProcessorRepresentative>
) else ()
if ($c/Description/Role="Data protection officer") then(
  <DataProtectionOfficer>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </DataProtectionOfficer>
) else ()
}
<ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
</Result>
```

Source: GDPR, Statement 32(1)

Initial Text:

1. Taking into account the state of the art, the costs of implementation and the nature, scope, context and purposes of processing as well as the risk of varying likelihood and severity for the rights and freedoms of natural persons, the controller and the processor shall implement appropriate technical and organisational measures to ensure a level of security appropriate to the risk, including inter alia as appropriate: (a) the pseudonymisation and encryption of personal data; (b) the ability to ensure the ongoing confidentiality, integrity, availability and resilience of processing systems and services; (c) the ability to restore the availability and access to personal data in a timely manner in the event of a physical or technical incident; (d) a process for regularly testing, assessing and evaluating the effectiveness of technical and organisational measures for ensuring the security of the processing.

Derived Statements/ Questions:

What measures have been taken to ensure a level of security appropriate to the risk to the rights and freedoms of natural persons?
Have the personal data been pseudonymized or encrypted?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>{
    for $y in $x/Why/Information
    return
      <Preprocessing>
        {if ($y/Description/Type="Minimization") then (
          <Minimization>{$y/Description/Description}</Minimization>
        ) else ()}
        {if ($y/Description/Type="Pseudonymization") then (
          <Pseudonymization>{$y/Description/Description}</Pseudonymization>
        ) else ()}
      </Preprocessing>}
    <DataProtection>{$x/../DataUsage/What/Information/Description/LegalConsideratio
ns/DataProtection}</DataProtection>
  </Result>
```

Source: GDPR, Statement 32(2)

Initial Text:

2. In assessing the appropriate level of security account shall be taken in particular of the risks that are presented by processing, in particular from accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to personal data transmitted, stored or otherwise processed.

Derived Statements/ Questions:

What measures have been taken to ensure that the data have not been accidentally destroyed, lost, altered, unauthorised disclosed or accessed during processing?

Derived XQueries:

Source: GDPR, Statement 35(1)

Initial Text:

1. Where a type of processing in particular using new technologies, and taking into account the nature, scope, context and purposes of the processing, is likely to result in a high risk to the rights and freedoms of natural persons, the controller shall, prior to the processing, carry out an assessment of the impact of the envisaged processing operations on the protection of personal data. A single assessment may address a set of similar processing operations that present similar high risks.

Derived Statements/ Questions:

What technologies are used for data processing? What is the nature, scope, context and purpose of the data processing? Do the data processing operations present a high risk for the protection of personal data? When was this assessment carried out?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <UsedTechnologies>{$x/How/Information/Description/Technologies}</UsedTechnologies>
  <RiskAssessment>{$x/How/Information/Explanation/RiskAssessment}</RiskAssessment>
  <RiskAssessmentDate>{$x/When/Information/Description/RiskAssessmentDate}</RiskAssessmentDate>
</Result>
```


Source: GDPR, Statement 35(7)

Initial Text:

7. The assessment shall contain at least: (a) a systematic description of the envisaged processing operations and the purposes of the processing, including, where applicable, the legitimate interest pursued by the controller; (b) an assessment of the necessity and proportionality of the processing operations in relation to the purposes; (c) an assessment of the risks to the rights and freedoms of data subjects referred to in paragraph 1; and (d) the measures envisaged to address the risks, including safeguards, security measures and mechanisms to ensure the protection of personal data and to demonstrate compliance with this Regulation taking into account the rights and legitimate interests of data subjects and other persons concerned.

Derived Statements/ Questions:

Give a systematic description of the envisaged processing operations and the purposes of the processing. What is the legitimate interest of the controller in the processing of the data?
How are the processing operations carried out necessary and proportionate to the purposes?
Do the data processing operations present a high risk to the rights and freedoms of natural persons? What measures have been taken to prevent this processing operation from adversely affecting the rights and freedoms of natural persons?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage/Why/Information
where $x/../../What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  {if ($x/../../When/Information/Startdate > getDate()) then (
    <FutureUse>{$x/Description/Description}</FutureUse>
    <Startdate>{$x/../../When/Information/Description/Startdate}</Startdate>
  ) else (
    <Usage>{$x/Description/Description}</Usage>
  )}
  <Purpose>{$x/Description/Purpose}</Purpose>
  <Legitimation>{$x/Description/LegalConsiderations}</Legitimation>
  <Necessity>{$x/Explanation/Necessity}</Necessity>

  <RiskAssessment>{$x/How/Information/Explanation/RiskAssessment}</RiskAssessm
ent>
</Result>
```

Source: GDPR, Statement 37(1)

Initial Text:

1. The controller and the processor shall designate a data protection officer in any case where: (a) the processing is carried out by a public authority or body, except for courts acting in their judicial capacity; (b) the core activities of the controller or the processor consist of processing operations which, by virtue of their nature, their scope and/or their purposes, require regular and systematic monitoring of data subjects on a large scale; or (c) the core activities of the controller or the processor consist of processing on a large scale of special categories of data pursuant to Article 9 and personal data relating to criminal convictions and offences referred to in Article 10.

Derived Statements/ Questions:

Who carried out the processing operations? Were the data subjects regularly and systematically monitored as part of the processing operations? Who is the designated data protection officer?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
    for $c in $x/Who/Information
    return
    if ($c/Description/Role="Processor") then(
      <Processor>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </Processor>
    ) else ()
    if ($c/Description/Role="Data protection officer") then(
      <DataProtectionOfficer>
        <Name>{$c/Description/Name}</Name>
        <Contact>{$c/Description/Contact}</Contact>
      </DataProtectionOfficer>
    ) else ()
  }
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Processing>{$x/How/Information/Description/Description}</Processing>
</Result>
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  {
```

```
for $c in $x/Who/Information
return
if ($c/Description/Role="Processor") then(
  <Processor>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </Processor>
) else ()
if ($c/Description/Role="Data protection officer") then(
  <DataProtectionOfficer>
    <Name>{$c/Description/Name}</Name>
    <Contact>{$c/Description/Contact}</Contact>
  </DataProtectionOfficer>
) else ()
}
<Usage>{$x/Why/Information/Description/Description}</Usage>
<Process>{$x/How/Information/Description/Description}</Process>
</Result>
```

Source: GDPR, Statement 37(5)

Initial Text:

5. The data protection officer shall be designated on the basis of professional qualities and, in particular, expert knowledge of data protection law and practices and the ability to fulfil the tasks referred to in Article 39.

Derived Statements/ Questions:

What are the professional qualities of the designated data protection officer?

Derived XQueries:

```
for $x in MDSStore/DataMDS//Who/Information
where $x/../../What/Information/Description/Type="Personal data"
    and $x/Description/Role="Data protection officer"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <DataProtectionOfficer>
    <Name>{$x/Description/Name}</Name>
    <Contact>{$x/Description/Contact}</Contact>
    <Qualifications>{$x/Description/Qualifications}</Qualifications>
  </DataProtectionOfficer>
</Result>
```

Source: GDPR, Statement 38(1)

Initial Text:

1. The controller and the processor shall ensure that the data protection officer is involved, properly and in a timely manner, in all issues which relate to the protection of personal data.

Derived Statements/ Questions:

When and why was the data protection officer involved? When were there issues related to the protection of personal data? Was the data protection officer involved in each of these issues?

Derived XQueries:

```
for $x in MDSStore/DataMDS//Who/Information
where $x/../../What/Information/Description/Type="Personal data"
and $x/Description/Role="Data protection officer"
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <DataProtectionOfficer>{$x/Description/Name}</DataProtectionOfficer>
  <LifecycleStep>{$x/../../Why/Information/Description/Name}</LifecycleStep>
  <Involvement>{
    for $y in $x/../../How/Information/Explanation/DataProtection
    where $x/@id = $y/@whoid
    return
      <DataProtectionIssue>{$y}</DataProtectionIssue>
  }
</Result>
```

Source: GDPR, Statement 44()

Initial Text:

Any transfer of personal data which are undergoing processing or are intended for processing after transfer to a third country or to an international organisation shall take place only if, subject to the other provisions of this Regulation, the conditions laid down in this Chapter are complied with by the controller and processor, including for onward transfers of personal data from the third country or an international organisation to another third country or to another international organisation. All provisions in this Chapter shall be applied in order to ensure that the level of protection of natural persons guaranteed by this Regulation is not undermined.

Derived Statements/ Questions:

Have the data subjects consented to some form of transfer? If so, to which transfers of data have they given their consent? Who was the data transferred to?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {
    for $t in $x/Who/Information
    where $t/Description/Role="Transferred to"
    return
    <TransferredTo>
      <Name>{$t/Description/Name}</Name>
      <Country>{$t/Description/Address/Country}</Country>
    </TransferredTo>
  }
</Result>
```

Source: GDPR, Statement 45(1)

Initial Text:

1. A transfer of personal data to a third country or an international organisation may take place where the Commission has decided that the third country, a territory or one or more specified sectors within that third country, or the international organisation in question ensures an adequate level of protection. Such a transfer shall not require any specific authorisation.

Derived Statements/ Questions:

To whom was the data transmitted? In which country are they located?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {
    for $t in $x/Who/Information
    where $t/Description/Role="Transferred to"
    return
    <TransferredTo>
      <Name>{$t/Description/Name}</Name>
      <Country>{$t/Description/Address/Country}</Country>
    </TransferredTo>
  }
</Result>
```

Source: GDPR, Statement 46(1)

Initial Text:

1. In the absence of a decision pursuant to Article 45(3), a controller or processor may transfer personal data to a third country or an international organisation only if the controller or processor has provided appropriate safeguards, and on condition that enforceable data subject rights and effective legal remedies for data subjects are available.

Derived Statements/ Questions:

If the data have been transferred to a third country or international organisation for which the Commission has not taken a decision on the adequacy of their level of protection, what adequate safeguards have been put in place?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {
    for $t in $x/Who/Information
    where $t/Description/Role="Transferred to"
    return
    <TransferredTo>
      <Name>{$t/Description/Name}</Name>
      <Country>{$t/Description/Address/Country}</Country>
      <Safeguards>{$t/Explanation/Safeguards}</Safeguards>
    </TransferredTo>
  }
</Result>
```


Source: GDPR, Statement 49(1)

Initial Text:

1. In the absence of an adequacy decision pursuant to Article 45(3), or of appropriate safeguards pursuant to Article 46, including binding corporate rules, a transfer or a set of transfers of personal data to a third country or an international organisation shall take place only on one of the following conditions: (a) the data subject has explicitly consented to the proposed transfer, after having been informed of the possible risks of such transfers for the data subject due to the absence of an adequacy decision and appropriate safeguards; (b) the transfer is necessary for the performance of a contract between the data subject and the controller or the implementation of pre-contractual measures taken at the data subject's request; (c) the transfer is necessary for the conclusion or performance of a contract concluded in the interest of the data subject between the controller and another natural or legal person; (d) the transfer is necessary for important reasons of public interest; (e) the transfer is necessary for the establishment, exercise or defence of legal claims; (f) the transfer is necessary in order to protect the vital interests of the data subject or of other persons, where the data subject is physically or legally incapable of giving consent; (g) the transfer is made from a register which according to Union or Member State law is intended to provide information to the public and which is open to consultation either by the public in general or by any person who can demonstrate a legitimate interest, but only to the extent that the conditions laid down by Union or Member State law for consultation are fulfilled in the particular case. Where a transfer could not be based on a provision in Article 45 or 46, including the provisions on binding corporate rules, and none of the derogations for a specific situation referred to in the first subparagraph of this paragraph is applicable, a transfer to a third country or an international organisation may take place only if the transfer is not repetitive, concerns only a limited number of data subjects, is necessary for the purposes of compelling legitimate interests pursued by the controller which are not overridden by the interests or rights and freedoms of the data subject, and the controller has assessed all the circumstances surrounding the data transfer and has on the basis of that assessment provided suitable safeguards with regard to the protection of personal data. The controller shall inform the supervisory authority of the transfer. The controller shall, in addition to providing the information referred to in Articles 13 and 14, inform the data subject of the transfer and on the compelling legitimate interests pursued.

Derived Statements/ Questions:

To whom was the data transmitted? In which country are they located?
If the data have been transferred to a third country or international organisation for which the Commission has not taken a decision on the adequacy of their level of protection, why have you decided to do so?
Have the data subjects consented to some form of transfer? If so, to which transfers of data have they given their consent? Have the data subjects been informed of the possible risks involved in such data transfers in the absence of an adequacy decision?

Derived XQueries:

for \$x in MDSStore/DataMDS/DataCollection

```
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Collection>
    <Consent>{$x//Consent}</Consent>

    <LegalStatements>{$x/What/Information/LegalConsiderations}</LegalStatements>
  </Collection>
</Result>

for $x in MDSStore/DataMDS/DataUsage
where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  {
  for $t in $x/Who/Information
  where $t/Description/Role="Transferred to"
  return
  <TransferredTo>
    <Name>{$t/Description/Name}</Name>
    <Country>{$t/Description/Address/Country}</Country>
    <Explanation>{$t/Explanation}</Explanation>
  </TransferredTo>
  }
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What is the accuracy of the data, i.e. to what extent does the data correspond to reality?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
</Result>
for $x in MDSStore/DataMDS/DataMaintenance
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <MaintenanceOperation>{$x/Why/Information/Description/Description}</MaintenanceOperation>
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
</Result>
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the data subject to special regulations and access restrictions (i.e., privacy)?

Derived XQueries:

```
for $x in MDSStore/DataMDS
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <LegalConsiderations>{$x//LegalConsiderations}</LegalConsiderations>
  <AccessProcess>{$x/How/Information/Description/Process}</AccessProcess>
  <AccessRights>{$x/How/Information/Description/LegalConsiderations/Access}</Acce
ssRights>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the selection of data adequate (technical and ethical) for the intended purpose?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <EthicalConsiderations>{$x/Why/Information/Description/EthicalConsiderations}</Et
hicalConsiderations>
  <Adequacy>{$x/What/Information/Explanation/Adequacy}</Adequacy>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data still valid (timeliness)? How frequently is the data updated?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <CollectionDate>{$x/../../When/Information/Description/Collection}</CollectionDate>
  >
  <Validity>{$x/When/Information/Limitation/Validity}</Validity>{
    for $y in $x/../DataMaintenance
    where $y/Why/Description/Type="Update"
    return
    <Update>

    <UpdatePurpose>{$y/Why/Information/Description/Description}</UpdatePurpose>

    <UpdateFrequency>{$y/When/Information/Description/Frequency}</UpdateFreque
ncy>
  </Update>
  }
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What does the content of the usable dataset look like? Which columns and data types are present?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Description>{$x/What/Information/Description/Description}</Description>
```

```
  <Schema>{$x/What/Information/Description/Schema}</Schema>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

For which application scenarios can the data be used?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Usage>{$x/Why/Information/Description/Description}</Usage>
```

```
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

How was the data created? Which software/tools were used? What were the boundary conditions of the data creation?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <Methods>{$x/How/Information/Description/Methods}</Methods>
  <Tools>{$x/How/Information/Description/Tools}</Tools>
  <BoundaryConditions>{$x/How/Information/Description/BoundaryConditions}</BoundaryConditions>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which methods were used for generation and further processing? Were these methods appropriate?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <UsedMethods>{$x/How/Information/Description/Methods}</UsedMethods>
  <Explanation>{$x/How/Information/Explanation/Appropriateness}</Explanation>
</Result>
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <UsedMethods>{$x/How/Information/Description/Methods}</UsedMethods>
  <Explanation>{$x/How/Information/Explanation/Appropriateness}</Explanation>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the underlying operationalisation valid? What part of reality does the data capture?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Description>{$x/What/Information/Description/Description}</Description>
```

```
  <Validity>{$x/../../DataCollection/How/Information/Explanation/Validity}</Validity>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How exactly was the data collected or processed? Describe the processes in a level of detail that enables the reproducibility of the results.

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Processing>{$x/How/Information/Description/Process}</Processing>
  <UsedMethods>{$x/How/Information/Description/Methods}</UsedMethods>
  <Limitations>{$x/How/Information/Limitations/Reproducibility}</Limitations>
</Result>
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
  <UsedMethods>{$x/How/Information/Description/Methods}</UsedMethods>
  <Limitations>{$x/How/Information/Limitations/Reproducibility}</Limitations>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How complete is the usable data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Completeness>{$x/What/Information/Description/Quality/Completeness}</Completeness>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Who created the data? Why should they be trusted?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Creators>{$x/Who/Information/Description}</Creators>
  <Explanation>{$x/Who/Information/Explanation}</Explanation>
  <Limitations>{$x/Who/Information/Limitations}</Limitations>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Processors>{$x/Who/Information/Description}</Processors>
  <Explanation>{$x/Who/Information/Explanation}</Explanation>
  <Limitations>{$x/Who/Information/Limitations}</Limitations>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What was the process to create the data set? Why can it be trusted?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
  <Explanation>{$x/How/Information/Explanation}</Explanation>
  <Limitations>{$x/How/Information/Limitations}</Limitations>
  <DataQuality>{$x/What/Information/Description/Quality}</DataQuality>
</Result>
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Processing>{$x/How/Information/Description/Process}</Processing>
  <Explanation>{$x/How/Information/Explanation}</Explanation>
  <Limitations>{$x/How/Information/Limitations}</Limitations>
  <DataQuality>{$x/What/Information/Description/Quality}</DataQuality>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

For which application is the data intended to be used? Why is the quality of the data sufficient for the application purpose?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <Quality>{$x/What/Information/Description/Quality}</Quality>
  <QualityExplanation>{$x/What/Information/Explanation/Quality}</QualityExplanatio
n>
  <QualityLimitations>{$x/What/Information/Limitations/Quality}</QualityLimitations
>
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data contradictory? Why are the data plausible?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Plausibility>{$x/What/Information/Explanation/Plausibility}</Plausibility>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What software was used to create the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Software>{$x/How/Information/Description/Software}</Software>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What quality is the data based on the equipment used for the creation of the data? In what condition was the equipment used for the creation of the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Equipment>{$x/How/Information/Description/Equipment}</Equipment>
  <Limitations>{$x/How/Information/Limitations/Equipment}</Limitations>
  <Quality>{$x/What/Information/Explanation/Quality/Equipment}</Quality>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which methods and tools were used with which parameters to create the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
```

```
  <UsedMethods>{$x/How/Information/Description/Methods}</UsedMethods>
```

```
  <UsedTools>{$x/How/Information/Description/Tools}</UsedTools>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What were the boundary conditions for data collection?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <BoundaryConditions>{$x/How/Information/Description/BoundaryConditions}</BoundaryConditions>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How was the data collected? Was the data collected automatically or manually?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <CollectionProcess>{$x/How/Information/Description/Process}</CollectionProcess>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What should be investigated by the collection of the data? Are the data collected appropriate for this purpose? Was sampling performed during data collection? If so, how?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <Adequacy>{$x/What/Information/Explanation/Adequacy}</Adequacy>
  <SamplingMethod>{$x/How/Information/Description/Methods/Sampling}</Samplin
gMethod>
  <SamplingValidity>{$x/How/Information/Explanations/Validity/Sampling}</Samplin
gValidity>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How accurate was the collected data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

Which licensing issues had to be considered during the data creation? Which licensing issues need to be considered for future use and maintenance?

Derived XQueries:

```
for $x in MDSStore/DataMDS
```

```
return
```

```
<Result>
```

```
  <Licensing>{$x//LegalConsiderations/License}</Licensing>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data adequate for the intended use?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
  <Adequacy>{$x/What/Information/Explanation/Adequacy}</Adequacy>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the selection of the people involved appropriate for the intended purpose?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Creators>{$x/Who/Information/Description}</Creators>
```

```
  <Adequacy>{$x/Who/Information/Explanation/Adequacy}</Adequacy>
```

```
  <Limitations>{$x/Who/Information/Limitations}</Limitations>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What is the schema and meaning of the data collected?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Description>{$x/What/Information/Description/Description}</Description>
  <Schema>{$x/What/Information/Description/Schema}</Schema>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the data anonymized?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Anonymization>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/Anonymization}</
LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/Anonymization
}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/Anonymization}</Limitations>
  </Anonymization>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

When was the data created?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <CollectionTime>{$x/When/Information/Description/Collection}</CollectionTime>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Do the data have to be deleted after a certain period of time?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/Why/Information/Description/Type="Delete"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <DeletionDate>{$x/When/Information/Description/DeletionDate}</DeletionDate>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which processing steps were performed on the data set?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataProcessing
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
  <Process>{$x/How/Information/Description/Process}</Process>
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data contradictory? Why are the data plausible?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Plausibility>{$x/What/Information/Explanation/Plausibility}</Plausibility>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Was all data recorded at the same time? What data was collected at the beginning?
Was some data added later - if so, how?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <CollectionDate>{$x/When/Information/Description/Collection}</CollectionDate>
```

```
  <CollectedData>{$x/What/Information/Description/Description}</CollectedData>
```

```
  <Explanation>{$x/What/Information/Explanation}</Explanation>
```

```
</Result>
```

```
for $x in MDSStore/DataMDS/DataProcessing
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
```

```
  <ProcessingDate>{$x/When/Information/Description/Date}</ProcessingDate>
```

```
  <Process>{$x/How/Information/Description/Process}</Process>
```

```
  <ProcessedData>{$x/What/Information/Description/Description}</ProcessedData>
```

```
  <Explanation>{$x/What/Information/Explanation}</Explanation>
```

```
</Result>
```

```
for $x in MDSStore/DataMDS/DataMaintenance
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <MaintenanceOperation>{$x/Why/Information/Description/Description}</MaintenanceOperation>
```

```
  <MaintenanceDate>{$x/When/Information/Description/Date}</MaintenanceDate>
```

```
  <MaintenanceProcess>{$x/How/Information/Description/Process}</MaintenanceProcess>
```

```
  <MaintainedData>{$x/What/Information/Description/Description}</MaintainedData>
```

```
>
```

```
  <Explanation>{$x/What/Information/Explanation}</Explanation>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data creation/processing processes robust, i.e. would repeated processes lead to the same result?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Robustness>{$x/How/Information/Explanation/Robustness}</Robustness>
```

```
  <Limitations>{$x/How/Information/Limitations/Robustness}</Limitations>
```

```
</Result>
```

```
for $x in MDSStore/DataMDS/DataProcessing
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
```

```
  <Robustness>{$x/How/Information/Explanation/Robustness}</Robustness>
```

```
  <Limitations>{$x/How/Information/Limitations/Robustness}</Limitations>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How complete is the collected data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Completeness>{$x/What/Information/Description/Quality/Completeness}</Completeness>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Who collected the data? Where was the data collected?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Creators>{$x/Who/Information/Description}</Creators>
  <CollectionLocation>{$x/Where/Information/Description/Collection}
tion>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

For what applications are the data appropriate?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Usage>{$x/Why/Information/Description/Description}</Usage>
```

```
  <Explanation>{$x/How/Information/Explanation/Appropriateness}</Explanation>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

If the data represent a sample of a population, is the sample adequate?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <SamplingAdequacy>{$x/What/Information/Explanation/Adequacy/Sampling}</Sam
plingAdequacy>
  <SamplingLimitations>{$x/What/Information/Limitation/Sampling}</SamplingLimitat
ions>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What part of the data can be used? Is the use limited to aggregated data or other reductions?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
  <Description>{$x/What/Information/Description/Description}</Description>
```

```
  <AccessibleData>{$x/What/Information/Limitation/AccessibleData}</AccessibleDat
```

```
a>
```

```
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

How accurate and correct are the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
  <Accuracy>{$x/What/Information/Description/Quality/Accuracy}</Accuracy>
```

```
  <Correctness>{$x/What/Information/Description/Quality/Correctness}</Correctness
```

```
>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What is the domain of the attributes? Which units are associated with them?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <Schema>
  {
  for $a in $x/What/Information/Description/Schema/Column
  return
    <Attribute>
      <Name>{$a/Name}</Name>
      <Domain>{$a/Domain}</Domain>
      <Unit>{$a/Unit}</Unit>
    </Attribute>
  }
  </Schema>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Are the data creation/processing processes robust, i.e. would repeated processes lead to the same result?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Robustness>{$x/How/Information/Explanation/Robustness}</Robustness>
```

```
  <Limitations>{$x/How/Information/Limitations/Robustness}</Limitations>
```

```
</Result>
```

```
for $x in MDSStore/DataMDS/DataProcessing
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <ProcessingStep>{$x/Why/Information/Description/Description}</ProcessingStep>
```

```
  <Robustness>{$x/How/Information/Explanation/Robustness}</Robustness>
```

```
  <Limitations>{$x/How/Information/Limitations/Robustness}</Limitations>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

If it is personal data, for what purpose can it be used?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
  where $x/What/Information/Description/Type="Personal data"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <LegalConsiderations>{$x/Why/Information/LegalConsiderations}</LegalConsiderati
ons>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What access rights apply to the dataset?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
where $x/Who/Information/Description/Type="Data subject"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <AccessProcess>{$x/How/Information/Description/Process}</AccessProcess>
  <AccessRights>{$x/How/Information/LegalConsiderations/Access}</AccessRights>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which attributes may not be used or must be handled specially because they are considered protected?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <ProtectedData>

  <LegalConsiderations>{$x/What/Information/LegalConsiderations/ProtectedAttribut
es}</LegalConsiderations>

  <EthicalConsiderations>{$x/What/Information/EthicalConsiderations/ProtectedAttri
butes}</EthicalConsiderations>

  <Limitations>{$x/What/Information/Limitations/ProtectedAttributes}</Limitations>
  </ProtectedData>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which parts of the data can or cannot be used?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
  <Description>{$x/What/Information/Description/Description}</Description>
```

```
  <AccessibleData>{$x/What/Information/Limitation/AccessibleData}</AccessibleDat
```

```
a>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is the data kept up-to-date? If the data is updated, how does this change the correctness of the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
  where $x/Why/Information/Description/Type="Update"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Correctness>{$x/What/Information/Description/Quality/Correctness}</Correctness
>
  <Explanation>{$x/What/Information/Explanation/Quality/Correctness}</Explanation
>
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

Who maintains the dataset?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Maintainer>{$x/Who/Information/Description/Name}</Maintainer>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is there a versioning of the dataset?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Versioning>{$x/How/Information/Description//Versioning}</Versioning>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is there a permanent provision of the data set?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
  where $x/Why/Information/Description/Type="Durability"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <AccessibleTimeframe>{$x/When/Information/Description/Accessible}
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is there a possibility for error messages and correction?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
  where $x/Why/Information/Description/Type="Update"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Updater>{$x/Who/Information/Description/Name}</Updater>
  <UpdateProcess>{$x/How/Information/Description/Process}<UpdateProcess>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

When must the data be deleted?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/Why/Information/Description/Type="Delete"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <DeletionDate>{$x/When/Information/Description/DeletionDate}</DeletionDate>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How is the accuracy of the data improved over time?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
  where $x/Why/Information/Explanation/Description="*improve accuracy*"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <MaintenanceProcess>{$x/How/Information/Description/Process}<MaintenanceProc
ess>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How are recordings made? How were indices formed?

Derived XQueries:

```
for $x in MDSStore/DataMDS//How/Methods
return
<Result>
  <DataName>{$x/../../What/Information/Description/Name}</DataName>
  <Purpose>{$x/../../Why/Information/Description/Description}</Purpose>
  {
    if ($x/Recoding) then(
      <Recoding>{$x/Recoding}</Recoding>) else ()
    }
    if ($x/Indexing) then (
      <Indexing>{$x/Indexing}</Indexing>
    ) else ()
  }
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

How will the completeness of the data over time be improved?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
  where $x/Why/Information/Explanation/Description="*improve completeness*"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <MaintenanceProcess>{$x/How/Information/Description/Process}<MaintenanceProc
ess>
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

Is this data used in machine learning applications?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Is this data used for visualization?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Which parts of the data were published and which parts are not accessible?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
```

```
  <Description>{$x/What/Information/Description/Description}</Description>
```

```
  <AccessibleData>{$x/What/Information/Limitation/AccessibleData}</AccessibleDat
```

```
a>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Will the data be archived?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/Why/Information/Description/Type="Archiving"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

When the data is archived, is it aggregated, anonymised or pseudonymised?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataMaintenance
where $x/Why/Information/Description/Type="Archiving"
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Purpose>{$x/Why/Information/Description/Description}</Purpose>
  <ArchivingProcess{$x/How/Information/Description/Process}></ArchivingProcess>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Who and/or how many have used the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Usage>{$x/Why/Information/Description/Description}</Usage>
```

```
  <Users>{$x/Who/Information/Description/Description}</Users>
```

```
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

Do context conditions influence the relevance of the data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
return
<Result>
  <DataName>{$x/What/Information/Description/Name}</DataName>
  <Usage>{$x/Why/Information/Description/Description}</Usage>
  <Relevance>{$x/What/Information/Description/Relevance}</Relevance>
  <RelevanceExplanation>{$x/What/Information/Explanation/RelevanceE
xplanation>
  <BoundaryConditions>{$x/How/Information/Description/BoundaryConditions}</Bou
ndaryConditions>
  <BoundaryConditionExplanations>{$x/How/Information/Explanation/BoundaryCondi
tions}</BoundaryConditionExplanations>
</Result>
```

Source: Experts

Initial Text:

Derived Statements/ Questions:

What research is based on this data?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataUsage
```

```
return
```

```
<Result>
```

```
  <DataName>{$x/What/Information/Description/Name}</DataName>
```

```
  <Usage>{$x/Why/Information/Description/Description}</Usage>
```

```
  {
```

```
    for $u in $x/Who/Information
```

```
    where $u/Area="Research"
```

```
    return
```

```
    <User>{$x/Description/Name}</User>
```

```
  }
```

```
</Result>
```


Source: Experts

Initial Text:

Derived Statements/ Questions:

By whom and how was the data examined?

Derived XQueries:

```
for $x in MDSStore/DataMDS/DataCollection/What/Information/Explanation/Validation
return
```

```
<Result>
  <DataName>{$x/./Description/Name}</DataName>
  <DataValidation>{$x}</DataValidation>{
    for $y in $x/./././Who/Information
    where $y/@id = $x/@validator
    return
      <Validator>{$y/Description/Name}</Validator>}
</Result>
```

```
for $x in MDSStore/DataMDS/DataProcessing/What/Information/Explanation/Validation
return
```

```
<Result>
  <DataName>{$x/./Description/Name}</DataName>
  <ProcessingStep>{$x/./././Why/Information/Description/Description}</ProcessingS
tep>
  <DataValidation>{$x}</DataValidation>{
    for $y in $x/./././Who/Information
    where $y/@id = $x/@validator
    return
      <Validator>{$y/Description/Name}</Validator>}
</Result>
```

```
for $x in MDSStore/DataMDS/DataMaintenance/What/Information/Explanation/Validation
return
```

```
<Result>
  <DataName>{$x/./Description/Name}</DataName>
  <MaintenanceOperation>{$x/./././Why/Information/Description/Description}</Mai
ntenanceOperation>
  <DataValidation>{$x}</DataValidation>{
    for $y in $x/./././Who/Information
    where $y/@id = $x/@validator
    return
      <Validator>{$y/Description/Name}</Validator>}
</Result>
```

```
for $x in MDSStore/DataMDS/DataUsage/What/Information/Explanation/
return
```

```
<Result>
  <DataName>{$x/../Description/Name}</DataName>
  <Purpose>{$x/../../Why/Information/Description/Description}</Purpose>
  <DataValidation>{$x}</DataValidation>{
  for $y in $x/../../Who/Information
  where $y/@id = $x/@validator
  return
  <Validator>{$y/Description/Name}</Validator>}
</Result>
```