Databases 1 (DBS'20)

TD : XPath

Q 1. Find any employee whose salary is less than 15000

```
+---------------------------------------------------------------------
|xml
+---------------------------------------------------------------------
|<employee name="Sophie Fonfec">           <department name="Distribution" addr
|<employee name="Teddy Fairant">           <department name="Distribution" addr
|<employee name="Terry Blaireur">           <department name="Distribution" add
|<employee name="Tex Ajerre">          <department name="Distribution" add
```
[Line count: 6]

Q 2. Find employees who work in Lille

```
+---------------------------------------------------------------------
|xml
+---------------------------------------------------------------------
|<employee name="Helmut Ardelpic">          <department name="Distribution" addr
|<employee name="Tex Ajerre">         <department name="Distribution" address
|<employee name="Thierry Chmonfisse">          <department name="Distribution"
|<employee name="Helena Vrante">         <department name="Distribution" addres
```
[Line count: 5]

Q 3. Find employees who work in Paris and earn less than 20000

```
+---------------------------------------------------------------------
|xml
+---------------------------------------------------------------------
|<employee name="Samira Traibien">          <department name="Distribution" ad
|<employee name="Sophie Fonfec">          <department name="Distribution" addr
+---------------------------------------------------------------------
```
[Line count: 2]

Q 4. Find employees hired in the 21st centry (hint: use substring function)

```
+---------------------------------------------------------------------
|xml
+---------------------------------------------------------------------
|<employee name="Samira Traibien">           <department name="Distribution" ad
|<employee name="Sophie Fonfec">           <department name="Distribution" addr
|<employee name="Teddy Fairant">           <department name="Distribution" addr
|<employee name="Terry Blaireur">           <department name="Distribution" add
```
[Line count: 9]

Q 5. Find any employee that has at least two direct subordinates

```
+---------------------------------------------------------------------
|xml
+---------------------------------------------------------------------
|<employee name="Adhemar Patamob">        <department name="Administration" addres
|<employee name="Agathe Zeublouze">          <department name="Distribution" addre
|<employee name="Debbie Zoudanlkou">           <department name="Distribution" ad
|<employee name="Elsa Rivenbusse">           <department name="Distribution" addr
```

[Line count: 8]

Q 6. Find any employee that has more than 3 direct or indirect subordinates

```
+------------------------------------------------------------------------------
|xml
+------------------------------------------------------------------------------
|<employee name="Adhemar Patamob">      <department name="Administration" addres
|<employee name="Agathe Zeublouze">       <department name="Distribution" addre
|<employee name="Alex Kuzbidon">        <department name="Sales" address="Paris"
+------------------------------------------------------------------------------
```
[Line count: 3]

Q 7. Find any employee that earns more than their direct supervisor

```
+------------------------------------------------------------------------------
|xml
+------------------------------------------------------------------------------
|<employee name="Thomas Phototetedemort">          <department name="Distribut
|<employee name="Yves Adrouille-Toultan">          <department name="Distribut
|<employee name="Yvon Anchier">        <department name="Distribution" addre
+------------------------------------------------------------------------------
```
[Line count: 3]

Q 8. Find any employee that earns less than one of their direct or indirect subordinates

```
+------------------------------------------------------------------------------
|xml
+------------------------------------------------------------------------------
|<employee name="Humphrey Peursconla">        <department name="Distribution"
|<employee name="Helena Vrante">        <department name="Distribution" addres
+------------------------------------------------------------------------------
```
[Line count: 2]

Q 9. Find any employee that earns less than all of their subordinates

```
+------------------------------------------------------------------------------
|xml
+------------------------------------------------------------------------------
|<employee name="Helena Vrante">        <department name="Distribution" addres
+------------------------------------------------------------------------------
```
[Line count: 1]