RYERSON UNIVERSITY

Faculty of Engineering, Architecture and Science

Department of Mechanical and Industrial Engineering

Course Number	**COE 848**
Course Title	**Fundamentals of Data Engineering**
Semester/Year	2022 Winter
Instructor	**Dr. Faezeh Ensan**
Teaching Assistant	**Shirin Seyedsalehi**

Lab Report No.	**6**

Report Title	**Lab 6 Report**

Section No.	**2**
Submission Date	**April 11th, 2022**
Due Date	**April 11th, 2022**

Name	Student ID	Signature*
Yasar Zaman	*xxxx13595*	Y.Z

(Note: remove the first 4 digits from your student ID)

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http://www.ryerson.ca/senate/policies/pol60.pdf.

XML Scheme

```xml
<?xml version="1.0" encoding="UTF-8"?>
<animeList>
<anime>
   <animeID>1</animeID>
   <animeName>Naruto Shippuden</animeName>
   <animeGenre>Action</animeGenre>
   <animeRD>15/02/2007</animeRD>
   <animeNOE>500</animeNOE>
   <animeRating>8.23</animeRating>
   <animeAge>15</animeAge>
   <contractID>1</contractID>
</anime>

<anime>
   <animeID>2</animeID>
   <animeName>One Week Friends</animeName>
   <animeGenre>Slice of Life</animeGenre>
   <animeRD>7/4/2014</animeRD>
   <animeNOE>12</animeNOE>
   <animeRating>7.54</animeRating>
   <animeAge>7</animeAge>
   <contractID>2</contractID>
</anime>

<anime>
   <animeID>3</animeID>
   <animeName>Kaichou wa Maid-Sama</animeName>
   <animeGenre>Romance</animeGenre>
   <animeRD>2/4/2010</animeRD>
   <animeNOE>26</animeNOE>
   <animeRating>8.02</animeRating>
   <animeAge>11</animeAge>
   <contractID>3</contractID>
</anime>

<anime>
   <animeID>4</animeID>
   <animeName>Kimi no Todoke</animeName>
   <animeGenre>Romance</animeGenre>
   <animeRD>7/10/2009</animeRD>
   <animeNOE>37</animeNOE>
   <animeRating>8</animeRating>
   <animeAge>10</animeAge>
   <contractID>4</contractID>
</anime>

<anime>
   <animeID>5</animeID>
   <animeName>Rurouni Kenshin</animeName>
```

```xml
      <animeGenre>Action</animeGenre>
      <animeRD>10/1/1996</animeRD>
      <animeNOE>94</animeNOE>
      <animeRating>8.3</animeRating>
      <animeAge>26</animeAge>
      <contractID>5</contractID>
</anime>

<anime>
      <animeID>6</animeID>
      <animeName>Say "I Love You"</animeName>
      <animeGenre>Romance</animeGenre>
      <animeRD>26/12/2012</animeRD>
      <animeNOE>10</animeNOE>
      <animeRating>6.81</animeRating>
      <animeAge>9</animeAge>
      <contractID>6</contractID>
</anime>

<anime>
      <animeID>7</animeID>
      <animeName>Toradora!</animeName>
      <animeGenre>Romance</animeGenre>
      <animeRD>2/10/2008</animeRD>
      <animeNOE>25</animeNOE>
      <animeRating>8.12</animeRating>
      <animeAge>13</animeAge>
      <contractID>7</contractID>
</anime>

<anime>
      <animeID>8</animeID>
      <animeName>Yamada-kun and the Seven Witches</animeName>
      <animeGenre>Slice of Life</animeGenre>
      <animeRD>12/4/2015</animeRD>
      <animeNOE>12</animeNOE>
      <animeRating>7.58</animeRating>
      <animeAge>6</animeAge>
      <contractID>8</contractID>
</anime>

<anime>
      <animeID>9</animeID>
      <animeName>The Devil is a Part-Timer!</animeName>
      <animeGenre>Comedy</animeGenre>
      <animeRD>4/4/2013</animeRD>
      <animeNOE>12</animeNOE>
      <animeRating>7.79</animeRating>
      <animeAge>8</animeAge>
      <contractID>9</contractID>
</anime>
```

```xml
<anime>
    <animeID>10</animeID>
    <animeName>Wagnaria!!</animeName>
    <animeGenre>Slice of Life</animeGenre>
    <animeRD>4/4/2010</animeRD>
    <animeNOE>39</animeNOE>
    <animeRating>7.83</animeRating>
    <animeAge>11</animeAge>
    <contractID>10</contractID>
</anime>

<studio>
    <studioID>1</studioID>
    <studioName>Studio Pierrot</studioName>
    <studioDOB>5/5/1979</studioDOB>
    <contractID>1</contractID>
</studio>

<studio>
    <studioID>2</studioID>
    <studioName>Brain's Base</studioName>
    <studioDOB>6/6/1996</studioDOB>
    <contractID>2</contractID>
</studio>

<studio>
    <studioID>3</studioID>
    <studioName>J.C.Staff</studioName>
    <studioDOB>18/1/1986</studioDOB>
    <contractID>3</contractID>
</studio>

<studio>
    <studioID>4</studioID>
    <studioName>Production I.G</studioName>
    <studioDOB>11/11/2007</studioDOB>
    <contractID>4</contractID>
</studio>

<studio>
    <studioID>5</studioID>
    <studioName>Gallop</studioName>
    <studioDOB>13/12/1978</studioDOB>
    <contractID>5</contractID>
</studio>

<studio>
    <studioID>6</studioID>
    <studioName>Zecxs</studioName>
    <studioDOB>23/1/1998</studioDOB>
```

```xml
      <contractID>6</contractID>
</studio>

<studio>
   <studioID>7</studioID>
   <studioName>LIDENFILMS</studioName>
   <studioDOB>22/2/2012</studioDOB>
   <contractID>7</contractID>
</studio>

<studio>
   <studioID>8</studioID>
   <studioName>White Fox</studioName>
   <studioDOB>4/4/2007</studioDOB>
   <contractID>8</contractID>
</studio>

<studio>
   <studioID>9</studioID>
   <studioName>A-1 Pictures</studioName>
   <studioDOB>9/5/2005</studioDOB>
   <contractID>9</contractID>
</studio>


<studio>
   <studioID>10</studioID>
   <studioName>Studio Deen</studioName>
   <studioDOB>14/3/1975</studioDOB>
   <contractID>5</contractID>
</studio>

<author>
   <authorID>1</authorID>
   <authorName>Masashi Kishimoto</authorName>
   <authorDOB>8/11/1974</authorDOB>
   <authorAge>47</authorAge>
   <contractID>1</contractID>
</author>

<author>
   <authorID>2</authorID>
   <authorName>Matcha Hazuki</authorName>
   <authorDOB>13/9/1990</authorDOB>
   <authorAge>31</authorAge>
   <contractID>2</contractID>
</author>

<author>
   <authorID>3</authorID>
   <authorName>Hiro Fujiwara</authorName>
```

```xml
    <authorDOB>23/12/1981</authorDOB>
    <authorAge>40</authorAge>
    <contractID>3</contractID>
</author>

<author>
    <authorID>4</authorID>
    <authorName>Haruho Shiina</authorName>
    <authorDOB>23/10/1975</authorDOB>
    <authorAge>46</authorAge>
    <contractID>4</contractID>
</author>

<author>
    <authorID>5</authorID>
    <authorName>Nobuhiro Watsuki</authorName>
    <authorDOB>26/5/1970</authorDOB>
    <authorAge>51</authorAge>
    <contractID>5</contractID>
</author>

<author>
    <authorID>6</authorID>
    <authorName>Kanae Hazuki</authorName>
    <authorDOB>9/9/1980</authorDOB>
    <authorAge>41</authorAge>
    <contractID>6</contractID>
</author>

<author>
    <authorID>7</authorID>
    <authorName>Yuyuko Takemiya</authorName>
    <authorDOB>24/2/1978</authorDOB>
    <authorAge>44</authorAge>
    <contractID>7</contractID>
</author>

<author>
    <authorID>8</authorID>
    <authorName>Miki Yoshikawa</authorName>
    <authorDOB>2/10/1982</authorDOB>
    <authorAge>39</authorAge>
    <contractID>8</contractID>
</author>

<author>
    <authorID>9</authorID>
    <authorName>Satoshi Wagahara</authorName>
    <authorDOB>12/12/1982</authorDOB>
    <authorAge>40</authorAge>
    <contractID>9</contractID>
```

```xml
    </author>

    <author>
        <authorID>10</authorID>
        <authorName>Karino Takatsu</authorName>
        <authorDOB>20/7/1982</authorDOB>
        <authorAge>39</authorAge>
        <contractID>10</contractID>
    </author>

    <voiceActor>
        <vaID>1</vaID>
        <vaName>Junko Takeuchi</vaName>
        <vaDOB>5/4/1972</vaDOB>
        <vaSex>Female</vaSex>
        <vaAge>49</vaAge>
        <contractID>1</contractID>
    </voiceActor>

    <voiceActor>
        <vaID>2</vaID>
        <vaName>Yoshitaka Yamaya</vaName>
        <vaDOB>15/2/1992</vaDOB>
        <vaSex>Male</vaSex>
        <vaAge>31</vaAge>
        <contractID>2</contractID>
    </voiceActor>

    <voiceActor>
        <vaID>3</vaID>
        <vaName>Nobuhiko Okamoto</vaName>
        <vaDOB>24/10/1986</vaDOB>
        <vaSex>Male</vaSex>
        <vaAge>36</vaAge>
        <contractID>3</contractID>
    </voiceActor>

    <voiceActor>
        <vaID>4</vaID>
        <vaName>Mamiko Noto</vaName>
        <vaDOB>6/2/1980</vaDOB>
        <vaSex>Female</vaSex>
        <vaAge>43</vaAge>
        <contractID>4</contractID>
    </voiceActor>

    <voiceActor>
        <vaID>5</vaID>
        <vaName>Mayo Suzukaze</vaName>
        <vaDOB>11/9/1960</vaDOB>
        <vaSex>Female</vaSex>
```

```xml
    <vaAge>62</vaAge>
    <contractID>5</contractID>
</voiceActor>

<voiceActor>
    <vaID>6</vaID>
    <vaName>Ai Kayano</vaName>
    <vaDOB>13/9/1987</vaDOB>
    <vaSex>Female</vaSex>
    <vaAge>35</vaAge>
    <contractID>6</contractID>
</voiceActor>

<voiceActor>
    <vaID>7</vaID>
    <vaName>Junji Majima</vaName>
    <vaDOB>13/5/1978</vaDOB>
    <vaSex>Male</vaSex>
    <vaAge>44</vaAge>
    <contractID>7</contractID>
</voiceActor>

<voiceActor>
    <vaID>8</vaID>
    <vaName>Sori Hayami</vaName>
    <vaDOB>29/5/1991</vaDOB>
    <vaSex>Female</vaSex>
    <vaAge>32</vaAge>
    <contractID>8</contractID>
</voiceActor>

<voiceActor>
    <vaID>9</vaID>
    <vaName>Ryouta Oosaka</vaName>
    <vaDOB>2/8/1986</vaDOB>
    <vaSex>Male</vaSex>
    <vaAge>36</vaAge>
    <contractID>9</contractID>
</voiceActor>

<voiceActor>
    <vaID>10</vaID>
    <vaName>Jun Fukuyama</vaName>
    <vaDOB>26/11/1978</vaDOB>
    <vaSex>Male</vaSex>
    <vaAge>44</vaAge>
    <contractID>10</contractID>
</voiceActor>

<contract>
    <contractID>1</contractID>
```

```xml
      <contractSalary>1000000</contractSalary>
      <contractExpire>23/3/2017</contractExpire>
      <studioID>1</studioID>
      <vaID>1</vaID>
   </contract>

   <contract>
      <contractID>2</contractID>
      <contractSalary>200000</contractSalary>
      <contractExpire>23/6/2014</contractExpire>
      <studioID>2</studioID>
      <vaID>2</vaID>
   </contract>

   <contract>
      <contractID>3</contractID>
      <contractSalary>100000</contractSalary>
      <contractExpire>24/11/2010</contractExpire>
      <studioID>3</studioID>
      <vaID>3</vaID>
   </contract>

   <contract>
      <contractID>4</contractID>
      <contractSalary>150000</contractSalary>
      <contractExpire>30/3/2011</contractExpire>
      <studioID>4</studioID>
      <vaID>4</vaID>
   </contract>

   <contract>
      <contractID>5</contractID>
      <contractSalary>250000</contractSalary>
      <contractExpire>8/9/1998</contractExpire>
      <studioID>5</studioID>
      <vaID>5</vaID>
   </contract>

   <contract>
      <contractID>6</contractID>
      <contractSalary>100000</contractSalary>
      <contractExpire>30/12/2012</contractExpire>
      <studioID>6</studioID>
      <vaID>6</vaID>
   </contract>

   <contract>
      <contractID>7</contractID>
      <contractSalary>250000</contractSalary>
      <contractExpire>26/3/2009</contractExpire>
      <studioID>3</studioID>
```

```xml
      <vaID>7</vaID>
   </contract>

   <contract>
      <contractID>8</contractID>
      <contractSalary>150000</contractSalary>
      <contractExpire>28/6/2015</contractExpire>
      <studioID>7</studioID>
      <vaID>8</vaID>
   </contract>

   <contract>
      <contractID>9</contractID>
      <contractSalary>200000</contractSalary>
      <contractExpire>27/6/2013</contractExpire>
      <studioID>8</studioID>
      <vaID>9</vaID>
   </contract>

   <contract>
      <contractID>10</contractID>
      <contractSalary>150000</contractSalary>
      <contractExpire>27/11/2015</contractExpire>
      <studioID>9</studioID>
      <vaID>10</vaID>
   </contract>


   <merchandise>
      <merchandiseID>1</merchandiseID>
      <merchandiseType>Figure</merchandiseType>
      <merchandiseMat>Plastic</merchandiseMat>
      <animeID>1</animeID>
   </merchandise>

   <merchandise>
      <merchandiseID>2</merchandiseID>
      <merchandiseType>Pillow</merchandiseType>
      <merchandiseMat>Polyester</merchandiseMat>
      <animeID>7</animeID>
   </merchandise>

   <merchandise>
      <merchandiseID>3</merchandiseID>
      <merchandiseType>Figure</merchandiseType>
      <merchandiseMat>Plastic</merchandiseMat>
      <animeID>5</animeID>
   </merchandise>


</animeList>
```

XSD Schema

```
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
 <xs:element name="animeList">
   <xs:complexType mixed="true">
     <xs:sequence>
       <xs:element name="anime" maxOccurs="unbounded" minOccurs="0">
         <xs:complexType>
           <xs:sequence>
             <xs:element type="xs:byte" name="animeID"/>
             <xs:element type="xs:string" name="animeName"/>
             <xs:element type="xs:string" name="animeGenre"/>
             <xs:element type="xs:string" name="animeRD"/>
             <xs:element type="xs:short" name="animeNOE"/>
             <xs:element type="xs:float" name="animeRating"/>
             <xs:element type="xs:byte" name="animeAge"/>
             <xs:element type="xs:byte" name="contractID"/>
           </xs:sequence>
         </xs:complexType>
       </xs:element>
       <xs:element name="studio" maxOccurs="unbounded" minOccurs="0">
         <xs:complexType>
           <xs:sequence>
             <xs:element type="xs:byte" name="studioID"/>
             <xs:element type="xs:string" name="studioName"/>
             <xs:element type="xs:string" name="studioDOB"/>
             <xs:element type="xs:byte" name="contractID"/>
           </xs:sequence>
         </xs:complexType>
       </xs:element>
       <xs:element name="author" maxOccurs="unbounded" minOccurs="0">
         <xs:complexType>
           <xs:sequence>
             <xs:element type="xs:byte" name="authorID"/>
             <xs:element type="xs:string" name="authorName"/>
             <xs:element type="xs:string" name="authorDOB"/>
             <xs:element type="xs:byte" name="authorAge"/>
             <xs:element type="xs:byte" name="contractID"/>
           </xs:sequence>
         </xs:complexType>
       </xs:element>
       <xs:element name="voiceActor" maxOccurs="unbounded" minOccurs="0">
         <xs:complexType>
           <xs:sequence>
             <xs:element type="xs:byte" name="vaID"/>
             <xs:element type="xs:string" name="vaName"/>
             <xs:element type="xs:string" name="vaDOB"/>
             <xs:element type="xs:string" name="vaSex"/>
             <xs:element type="xs:byte" name="vaAge"/>
             <xs:element type="xs:byte" name="contractID"/>
```
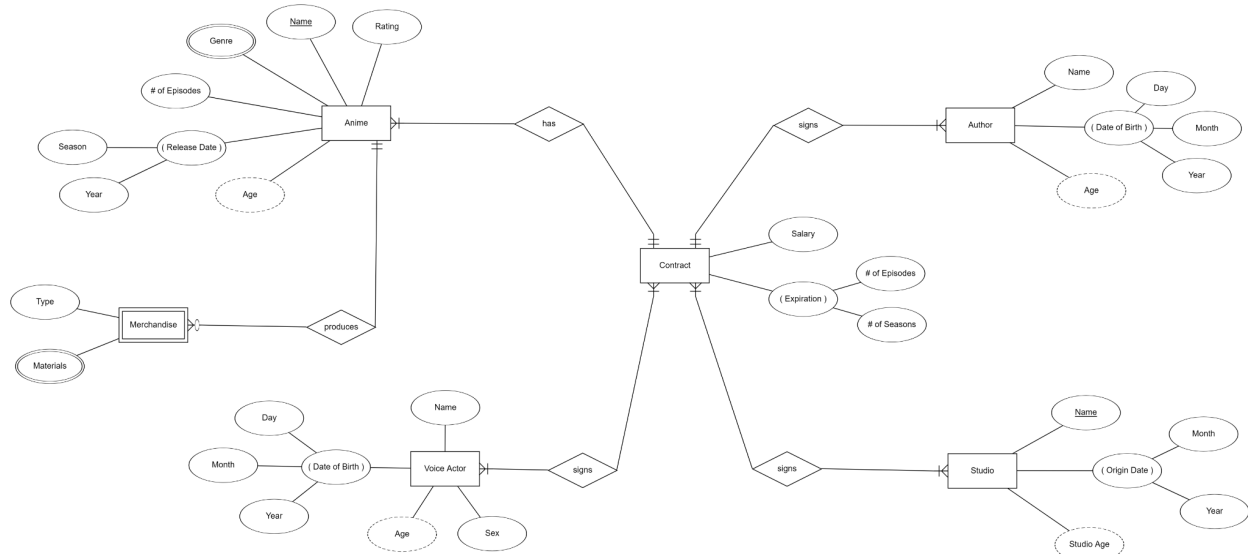
```xml
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="contract" maxOccurs="unbounded" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:element type="xs:byte" name="contractID"/>
          <xs:element type="xs:int" name="contractSalary"/>
          <xs:element type="xs:string" name="contractExpire"/>
          <xs:element type="xs:byte" name="studioID"/>
          <xs:element type="xs:byte" name="vaID"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="merchandise" maxOccurs="unbounded" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:element type="xs:byte" name="merchandiseID"/>
          <xs:element type="xs:string" name="merchandiseType"/>
          <xs:element type="xs:string" name="merchandiseMat"/>
          <xs:element type="xs:byte" name="animeID"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    </xs:sequence>
  </xs:complexType>
 </xs:element>
</xs:schema>
```

ER Diagram

Name Rating
Genre
# of Episodes
Anime
(Release Date)
Season
Year
Age

has

signs
Author
Name
Day
(Date of Birth)
Month
Year
Age

Contract
Salary
(Expiration)
# of Episodes
# of Seasons

Type
Merchandise
Materials

produces

signs

Day
Month
(Date of Birth)
Name
Voice Actor
Year
Age Sex

signs

signs
Studio
Name
Month
(Origin Date)
Year
Studio Age

Based on this ER Diagram, every entity has been labeled in the Schema. The entities, *'Anime,'* *'Author,' 'Contract,' 'Studio,'* and *'Merchandise.'* If we observe the entity *'Anime,'* the attributes such as animeId, animeName, all are labeled in its specific type. Since animeName is a string, it is labeled as type string, and since animeRating is a number with decimal places, it is labeled as type float. Below is a list of the attributes of entities and their types.

Anime
animeID → byte
animeName → string
animeGenre → string
animeRD → string
animeNOE → short
animeRating → float
contractID → byte

Studio
studioID → byte
studioName → string
studioDOB → string
contractID → byte

Author
authorID → byte
authorName → string
authorDOB → string
authorAge → byte
contractID → byte

Voice Actor
vaID → byte
vaName → string
vaDOB → string
vaSex → string
vaAge → byte
contractID → byte

Contract
contractID → byte
contractSalary → int
contractExpire → string
studioID → byte
vaID → byte

Merchandise
merchandiseID → byte
merchandiseType → string
merchandiseMat → string
animeID → byte

No changes needed to be made from the original ERD other than determining the type for each instance. For example, previously we made studioDOB type DATE, however, there is no type DATE and so it needs to be shown as a string.

Five XSLT Queries

1. List the information about the animes with the Slice of Life genre

Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
  <body>
  <h2>Slice of Life Animes</h2>
    <table border="1">
    <tr bgcolor="#9acd32">
    <th style="text-align:left">Anime Name</th>
    <th style="text-align:left">Release Date</th>
    <th style="text-align:left">Rating</th>
  </tr>
  <xsl:for-each select="animeList/anime">
  <tr>
  <xsl:variable name="animename" select="animeName"/>
  <xsl:variable name="animeInfo" select="//animeList/anime[animeGenre='Slice of Life' and
animeName=$animename] " />
  <xsl:if test="$animeInfo/animeGenre">
    <td><xsl:value-of select="animeName"/></td>
    <td><xsl:value-of select="animeRD"/></td>
    <td><xsl:value-of select="animeRating"/></td>
  </xsl:if>
  </tr>
  </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Result:

Slice of Life Animes

Anime Name	Release Date	Rating
One Week Friends	7/4/2014	7.54
Yamada-kun and the Seven Witches	12/4/2015	7.58
Wagnaria!!	4/4/2010	7.83

2. List any anime that have a rating over 7.00

Code:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
   <body>
   <h2>Anime with at least a 7.00 rating</h2>
      <table border="1">
      <tr bgcolor="#9acd32">
      <th style="text-align:left">Anime Name</th>
      <th style="text-align:left">Release Date</th>
      <th style="text-align:left">Rating</th>
   </tr>
   <xsl:for-each select="animeList/anime">
   <tr>
   <xsl:variable name="animename" select="animeName"/>
   <xsl:variable name="animeInfo" select="//animeList/anime[animeRating >7.00 and
animeName=$animename] " />
   <xsl:if test="$animeInfo/animeRating">
      <td><xsl:value-of select="animeName"/></td>
      <td><xsl:value-of select="animeRD"/></td>
      <td><xsl:value-of select="animeRating"/></td>
   </xsl:if>
   </tr>
   </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Result:

Anime with at least a 7.00 rating

Anime Name	Release Date	Rating
Naruto Shippuden	15/02/2007	8.23
One Week Friends	7/4/2014	7.54
Kaichou wa Maid-Sama	2/4/2010	8.02
Kimi no Todoke	7/10/2009	8
Rurouni Kenshin	10/1/1996	8.3
Toradora!	2/10/2008	8.12
Yamada-kun and the Seven Witches	12/4/2015	7.58
The Devil is a Part-Timer!	4/4/2013	7.79
Wagnaria!!	4/4/2010	7.83

3. List any anime with 12 episodes

Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
   <body>
   <h2>Animes with 12 episodes</h2>
      <table border="1">
         <tr bgcolor="#9acd32">
         <th style="text-align:left">Anime ID</th>
         <th style="text-align:left">Anime Name</th>
      </tr>
      <xsl:for-each select="animeList/anime">
      <tr>
         <xsl:variable name="animename" select="animeName" />
          <xsl:variable name="animeData"
select="//animeList/anime[animeName=$animename]"/>
      <xsl:if test="$animeData/animeNOE='12'">
         <td><xsl:value-of select="animeID"/></td>
         <td><xsl:value-of select="animeName"/></td>
      </xsl:if>
      </tr>
      </xsl:for-each>
   </table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Result:

Animes with 12 episodes

Anime ID	Anime Name
2	One Week Friends
8	Yamada-kun and the Seven Witches
9	The Devil is a Part-Timer!

4. List any anime with 500 episodes

Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
   <body>
   <h2>Animes with 500 episodes</h2>
      <table border="1">
         <tr bgcolor="#9acd32">
         <th style="text-align:left">Anime ID</th>
         <th style="text-align:left">Anime Name</th>
      </tr>
      <xsl:for-each select="animeList/anime">
      <tr>
         <xsl:variable name="animename" select="animeName" />
          <xsl:variable name="animeData"
select="//animeList/anime[animeName=$animename]"/>
      <xsl:if test="$animeData/animeNOE='500'">
         <td><xsl:value-of select="animeID"/></td>
         <td><xsl:value-of select="animeName"/></td>
      </xsl:if>
      </tr>
      </xsl:for-each>
   </table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Result:

Animes with 500 episodes

Anime ID	Anime Name
1	Naruto Shippuden

5. List any action anime

Code:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
   <body>
   <h2>Slice of Life Animes</h2>
      <table border="1">
      <tr bgcolor="#9acd32">
      <th style="text-align:left">Anime Name</th>
      <th style="text-align:left">Release Date</th>
      <th style="text-align:left">Rating</th>
   </tr>
   <xsl:for-each select="animeList/anime">
   <tr>
   <xsl:variable name="animename" select="animeName"/>
   <xsl:variable name="animeInfo" select="//animeList/anime[animeGenre='Action' and
animeName=$animename] " />
   <xsl:if test="$animeInfo/animeGenre">
      <td><xsl:value-of select="animeName"/></td>
      <td><xsl:value-of select="animeRD"/></td>
      <td><xsl:value-of select="animeRating"/></td>
   </xsl:if>
   </tr>
   </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Result:

Slice of Life Animes

Anime Name	Release Date	Rating
Naruto Shippuden	15/02/2007	8.23
Rurouni Kenshin	10/1/1996	8.3