

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

<b>Lab Report No.</b>	<b>6</b>
-----------------------	----------

Report Title	<b>Lab 6 Report</b>
--------------	---------------------

Section No.	<b>2</b>
Submission Date	<b>April 11th, 2022</b>
Due Date	<b>April 11th, 2022</b>

Name	Student ID	Signature*
Yasar Zaman	xxxx13595	Y.Z

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

*\*By signing above you attest that you have contributed to this submission and confirm that all work you have contributed to this submission is your own work. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "F" in the course, or possibly more severe penalties, as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at:*

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

## 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 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 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