Name: Sanjay Tharagesh R S

Roll No: CB.EN.U4CSE17453

Drive Link to all files: https://drive.google.com/drive/folders/1w7pw-PxKdNlJ4Mj14WH5DcV5Vv_9yPZT?usp=sharing

XML Code (Number of rows is trimmed)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<root xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="D:\sem7\NCP\Lab - 7\XSD\MELBOURNE_HOUSE_PRICES_
LESS - Copy.xsd">
  <row>
    <Suburb>Abbotsford</Suburb>
    <Address>49 Lithgow St</Address>
    <Rooms>3</Rooms>
    <Type>h</Type>
    <Price>1490000</Price>
    <Method>S</Method>
    <SellerG>Jellis</SellerG>
    <Date>01-04-2017</Date>
    <Postcode>3067</Postcode>
    <Regionname>Northern Metropolitan</Regionname>
    <Propertycount>4019</Propertycount>
    <Distance>3</Distance>
    <CouncilArea>Yarra City Council</CouncilArea>
  </row>
  <row>
    <Suburb>Abbotsford</Suburb>
    <Address>59A Turner St</Address>
    <Rooms>3</Rooms>
    <Type>h</Type>
    <Price>1220000</Price>
    <Method>S</Method>
    <SellerG>Marshall</SellerG>
    <Date>01-04-2017</Date>
    <Postcode>3067</Postcode>
    <Regionname>Northern Metropolitan</Regionname>
    <Propertycount>4019</Propertycount>
    <Distance>3</Distance>
    <CouncilArea>Yarra City Council</CouncilArea>
  </row>
  <row>
    <Suburb>Abbotsford</Suburb>
    <Address>119B Yarra St</Address>
    <Rooms>3</Rooms>
```

```xml
    <Type>h</Type>
    <Price>1420000</Price>
    <Method>S</Method>
    <SellerG>Nelson</SellerG>
    <Date>01-04-2017</Date>
    <Postcode>3067</Postcode>
    <Regionname>Northern Metropolitan</Regionname>
    <Propertycount>4019</Propertycount>
    <Distance>3</Distance>
    <CouncilArea>Yarra City Council</CouncilArea>
  </row>
  <row>
    <Suburb>Aberfeldie</Suburb>
    <Address>68 Vida St</Address>
    <Rooms>3</Rooms>
    <Type>h</Type>
    <Price>1515000</Price>
    <Method>S</Method>
    <SellerG>Barry</SellerG>
    <Date>01-04-2017</Date>
    <Postcode>3040</Postcode>
    <Regionname>Western Metropolitan</Regionname>
    <Propertycount>1543</Propertycount>
    <Distance>7.5</Distance>
    <CouncilArea>Moonee Valley City Council</CouncilArea>
  </row>
  <row>
    <Suburb>Airport West</Suburb>
    <Address>92 Clydesdale Rd</Address>
    <Rooms>2</Rooms>
    <Type>h</Type>
    <Price>670000</Price>
    <Method>S</Method>
    <SellerG>Nelson</SellerG>
    <Date>01-04-2017</Date>
    <Postcode>3042</Postcode>
    <Regionname>Western Metropolitan</Regionname>
    <Propertycount>3464</Propertycount>
    <Distance>10.4</Distance>
    <CouncilArea>Moonee Valley City Council</CouncilArea>
  </row>
  <row>
    <Suburb>Airport West</Suburb>
    <Address>4/32 Earl St</Address>
    <Rooms>2</Rooms>
    <Type>t</Type>
    <Price>530000</Price>
    <Method>S</Method>
```

```xml
        <SellerG>Jellis</SellerG>
        <Date>01-04-2017</Date>
        <Postcode>3042</Postcode>
        <Regionname>Western Metropolitan</Regionname>
        <Propertycount>3464</Propertycount>
        <Distance>10.4</Distance>
        <CouncilArea>Moonee Valley City Council</CouncilArea>
    </row>
    <row>
        <Suburb>Airport West</Suburb>
        <Address>3/74 Hawker St</Address>
        <Rooms>2</Rooms>
        <Type>u</Type>
        <Price>540000</Price>
        <Method>S</Method>
        <SellerG>Barry</SellerG>
        <Date>01-04-2017</Date>
        <Postcode>3042</Postcode>
        <Regionname>Western Metropolitan</Regionname>
        <Propertycount>3464</Propertycount>
        <Distance>10.4</Distance>
        <CouncilArea>Moonee Valley City Council</CouncilArea>
    </row>
    <row>
        <Suburb>Airport West</Suburb>
        <Address>1/26 Highridge Cr</Address>
        <Rooms>3</Rooms>
        <Type>h</Type>
        <Price>715000</Price>
        <Method>SP</Method>
        <SellerG>Nelson</SellerG>
        <Date>01-04-2017</Date>
        <Postcode>3042</Postcode>
        <Regionname>Western Metropolitan</Regionname>
        <Propertycount>3464</Propertycount>
        <Distance>10.4</Distance>
        <CouncilArea>Moonee Valley City Council</CouncilArea>
    </row>
</root>
```

XSL 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 style="text-align:center">
    <h2>Melbourne House Price Dataset</h2>
    <p>This data was scraped from publicly available results poste
d every week from Domain.com.au, I've cleaned it as best I can, now it's up to
 you to make data analysis magic. The dataset includes Address, Type of Real e
state, Suburb, Method of Selling, Rooms, Price, Real Estate Agent, Date of Sal
e and distance from C.B.D.</p>
    <table border="1">
        <tr bgcolor="#9acd32">
            <th>Suburb</th>
            <th>Address</th>
            <th>Rooms</th>
            <th>Type</th>
            <th>Price</th>
            <th>Method</th>
            <th>SellerG</th>
            <th>Date</th>
            <th>Postcode</th>
            <th>Regionname</th>
            <th>Propertycount</th>
            <th>Distance</th>
            <th>CouncilArea</th>
        </tr>
        <xsl:for-each select="root/row">
            <tr>
                <td>
                    <xsl:value-of select="Suburb"/>
                </td>
                <td>
                    <xsl:value-of select="Address"/>
                </td>
                <td>
                    <xsl:value-of select="Rooms"/>
                </td>
                <td>
                    <xsl:value-of select="Type"/>
                </td>
                <td>
                    <xsl:value-of select="Price"/>
                </td>
                <td>
                    <xsl:value-of select="Method"/>
                </td>
                <td>
                    <xsl:value-of select="SellerG"/>
                </td>
                <td>
                    <xsl:value-of select="Date"/>
```

```xml
                                            </td>
                                            <td>
                                                <xsl:value-of select="Postcode"/>
                                            </td>
                                            <td>
                                                <xsl:value-of select="Regionname"/>
                                            </td>
                                            <td>
                                                <xsl:value-of select="Propertycount"/>
                                            </td>
                                            <td>
                                                <xsl:value-of select="Distance"/>
                                            </td>
                                            <td>
                                                <xsl:value-of select="CouncilArea"/>
                                            </td>
                                        </tr>
                                    </xsl:for-each>
                            </table>
                            <h2>Council Area is Moreland City Council</h2>
                            <table border="1">
                                    <tr bgcolor="#9acd32">
                                            <th>Suburb</th>
                                            <th>Address</th>
                                            <th>Rooms</th>
                                            <th>Type</th>
                                            <th>Price</th>
                                            <th>Method</th>
                                            <th>SellerG</th>
                                            <th>Date</th>
                                            <th>Postcode</th>
                                            <th>Regionname</th>
                                            <th>Propertycount</th>
                                            <th>Distance</th>
                                            <th>CouncilArea</th>
                                    </tr>
                                    <xsl:for-
each select="root/row[CouncilArea='Moreland City Council']">
                                            <tr>
                                                <td>
                                                    <xsl:value-of select="Suburb"/>
                                                </td>
                                                <td>
                                                    <xsl:value-of select="Address"/>
                                                </td>
                                                <td>
                                                    <xsl:value-of select="Rooms"/>
                                                </td>
```

```xml
                <td>
                    <xsl:value-of select="Type"/>
                </td>
                <td>
                    <xsl:value-of select="Price"/>
                </td>
                <td>
                    <xsl:value-of select="Method"/>
                </td>
                <td>
                    <xsl:value-of select="SellerG"/>
                </td>
                <td>
                    <xsl:value-of select="Date"/>
                </td>
                <td>
                    <xsl:value-of select="Postcode"/>
                </td>
                <td>
                    <xsl:value-of select="Regionname"/>
                </td>
                <td>
                    <xsl:value-of select="Propertycount"/>
                </td>
                <td>
                    <xsl:value-of select="Distance"/>
                </td>
                <td>
                    <xsl:value-of select="CouncilArea"/>
                </td>
            </tr>
        </xsl:for-each>
    </table>
    <h2>Distance is greater than 10 miles and in sorted order</h2>
    <table border="1">
        <tr bgcolor="#9acd32">
            <th>Suburb</th>
            <th>Address</th>
            <th>Rooms</th>
            <th>Type</th>
            <th>Price</th>
            <th>Method</th>
            <th>SellerG</th>
            <th>Date</th>
            <th>Postcode</th>
            <th>Regionname</th>
            <th>Propertycount</th>
            <th>Distance</th>
```

```xml
						<th>CouncilArea</th>
					</tr>
					<xsl:for-
each select="root/row[Regionname='Northern Metropolitan']">
						<xsl:sort select="Distance"/>
						<xsl:if test="Distance &gt; 10">
							<tr>
								<td>
									<xsl:value-of select="Suburb"/>
								</td>
								<td>
									<xsl:value-of select="Address"/>
								</td>
								<td>
									<xsl:value-of select="Rooms"/>
								</td>
								<td>
									<xsl:value-of select="Type"/>
								</td>
								<td>
									<xsl:value-of select="Price"/>
								</td>
								<td>
									<xsl:value-of select="Method"/>
								</td>
								<td>
									<xsl:value-of select="SellerG"/>
								</td>
								<td>
									<xsl:value-of select="Date"/>
								</td>
								<td>
									<xsl:value-of select="Postcode"/>
								</td>
								<td>
									<xsl:value-of select="Regionname"/>
								</td>
								<td>
									<xsl:value-of select="Propertycount"/>
								</td>
								<td>
									<xsl:value-of select="Distance"/>
								</td>
								<td>
									<xsl:value-of select="CouncilArea"/>
								</td>
							</tr>
						</xsl:if>
```

```
            </xsl:for-each>
        </table>
        <ul>
            <h2>Sorted based on Number of Rooms</h2>
            <h2>Type of house(h, u, t) is expanded</h2>
            <h2>Coloured based on distance value</h2>
            <h2>Colour palatte</h2>
            <span style="background-
color:#ac123c; color: white; padding:10px">Distance &lt; 11 </span>
            <span style="background-
color:#ff12ff; color: white; padding:10px">Distance &lt; 21 </span>
            <span style="background-
color:#fc9200; color: white; padding:10px">Distance &lt;= 21 </span>
        </ul>
        <table border="1">
            <tr bgcolor="#9acd32">
                <th>Suburb</th>
                <th>Address</th>
                <th>Rooms</th>
                <th>Type</th>
                <th>Price</th>
                <th>Method</th>
                <th>SellerG</th>
                <th>Date</th>
                <th>Postcode</th>
                <th>Regionname</th>
                <th>Propertycount</th>
                <th>Distance</th>
                <th>CouncilArea</th>
            </tr>
            <xsl:for-each select="root/row">
                <xsl:sort select="Rooms"/>
                <tr>
                    <td>
                        <xsl:value-of select="Suburb"/>
                    </td>
                    <td>
                        <xsl:value-of select="Address"/>
                    </td>
                    <td>
                        <xsl:value-of select="Rooms"/>
                    </td>
                    <xsl:choose>
                        <xsl:when test="Type = 'h'">
                            <td>Villa</td>
                        </xsl:when>
                        <xsl:when test="Type = 'u'">
                            <td>Duplex</td>
```

```xml
                </xsl:when>
                <xsl:otherwise>
                    <td>Town House</td>
                </xsl:otherwise>
            </xsl:choose>
            <td>
                <xsl:value-of select="Price"/>
            </td>
            <td>
                <xsl:value-of select="Method"/>
            </td>
            <td>
                <xsl:value-of select="SellerG"/>
            </td>
            <td>
                <xsl:value-of select="Date"/>
            </td>
            <td>
                <xsl:value-of select="Postcode"/>
            </td>
            <td>
                <xsl:value-of select="Regionname"/>
            </td>
            <td>
                <xsl:value-of select="Propertycount"/>
            </td>
            <xsl:choose>
                <xsl:when test="Distance &lt; 11">
                    <td bgcolor="#ac123c">
                        <xsl:value-of select="Distance"/>
                    </td>
                </xsl:when>
                <xsl:when test="Distance &lt; 21">
                    <td bgcolor="#ff12ff">
                        <xsl:value-of select="Distance"/>
                    </td>
                </xsl:when>
                <xsl:otherwise>
                    <td bgcolor="#fc9200">
                        <xsl:value-of select="Distance"/>
                    </td>
                </xsl:otherwise>
            </xsl:choose>
            <td>
                <xsl:value-of select="CouncilArea"/>
            </td>
        </tr>
    </xsl:for-each>
```

```
            </table>
          </body>
       </html>
    </xsl:template>
</xsl:stylesheet>
```