

Quiz 14

Cho nội dung xml CD Catalog

```
<catalog>
  <cd>
    <title>Empire Burlesque</title>
    <artist>Bob Dylan</artist>
    <country>USA</country>
    <company>Columbia</company>
    <price>10.90</price>
    <year>1985</year>
  </cd>
  <cd>
    <title>Hide your heart</title>
    <artist>Bonnie Tyler</artist>
    <country>UK</country>
    <company>CBS Records</company>
    <price>9.90</price>
    <year>1988</year>
  </cd>
  <cd>
    <title>Greatest Hits</title>
    <artist>Dolly Parton</artist>
    <country>USA</country>
    <company>RCA</company>
    <price>9.90</price>
    <year>1982</year>
  </cd>
  <cd>
    <title>Still got the blues</title>
    <artist>Gary Moore</artist>
    <country>UK</country>
    <company>Virgin records</company>
    <price>10.20</price>
    <year>1990</year>
  </cd>
  <cd>
    <title>Eros</title>
    <artist>Eros Ramazzotti</artist>
    <country>EU</country>
    <company>BMG</company>
    <price>9.90</price>
    <year>1997</year>
  </cd>
  <cd>
    <title>One night only</title>
    <artist>Bee Gees</artist>
    <country>UK</country>
```

```
<company>Polydor</company>
<price>10.90</price>
<year>1998</year>
</cd>
<cd>
  <title>Sylvias Mother</title>
  <artist>Dr.Hook</artist>
  <country>UK</country>
  <company>CBS</company>
  <price>8.10</price>
  <year>1973</year>
</cd>
<cd>
  <title>Maggie May</title>
  <artist>Rod Stewart</artist>
  <country>UK</country>
  <company>Pickwick</company>
  <price>8.50</price>
  <year>1990</year>
</cd>
<cd>
  <title>Romanza</title>
  <artist>Andrea Bocelli</artist>
  <country>EU</country>
  <company>Polydor</company>
  <price>10.80</price>
  <year>1996</year>
</cd>
<cd>
  <title>When a man loves a woman</title>
  <artist>Percy Sledge</artist>
  <country>USA</country>
  <company>Atlantic</company>
  <price>8.70</price>
  <year>1987</year>
</cd>
<cd>
  <title>Black angel</title>
  <artist>Savage Rose</artist>
  <country>EU</country>
  <company>Mega</company>
  <price>10.90</price>
  <year>1995</year>
</cd>
<cd>
  <title>1999 Grammy Nominees</title>
  <artist>Many</artist>
  <country>USA</country>
  <company>Grammy</company>
  <price>10.20</price>
  <year>1999</year>
</cd>
<cd>
  <title>For the good times</title>
```

```
<artist>Kenny Rogers</artist>
<country>UK</country>
<company>Mucik Master</company>
<price>8.70</price>
<year>1995</year>
</cd>
<cd>
  <title>Big Willie style</title>
  <artist>Will Smith</artist>
  <country>USA</country>
  <company>Columbia</company>
  <price>9.90</price>
  <year>1997</year>
</cd>
<cd>
  <title>Tupelo Honey</title>
  <artist>Van Morrison</artist>
  <country>UK</country>
  <company>Polydor</company>
  <price>8.20</price>
  <year>1971</year>
</cd>
<cd>
  <title>Soulsville</title>
  <artist>Jorn Hoel</artist>
  <country>Norway</country>
  <company>WEA</company>
  <price>7.90</price>
  <year>1996</year>
</cd>
<cd>
  <title>The very best of</title>
  <artist>Cat Stevens</artist>
  <country>UK</country>
  <company>Island</company>
  <price>8.90</price>
  <year>1990</year>
</cd>
<cd>
  <title>Stop</title>
  <artist>Sam Brown</artist>
  <country>UK</country>
  <company>A and M</company>
  <price>8.90</price>
  <year>1988</year>
</cd>
<cd>
  <title>Bridge of Spies</title>
  <artist>T`Pau</artist>
  <country>UK</country>
  <company>Siren</company>
  <price>7.90</price>
  <year>1987</year>
</cd>
```

```
<cd>
  <title>Private Dancer</title>
  <artist>Tina Turner</artist>
  <country>UK</country>
  <company>Capitol</company>
  <price>8.90</price>
  <year>1983</year>
</cd>
<cd>
  <title>Midt om natten</title>
  <artist>Kim Larsen</artist>
  <country>EU</country>
  <company>Medley</company>
  <price>7.80</price>
  <year>1983</year>
</cd>
<cd>
  <title>Pavarotti Gala Concert</title>
  <artist>Luciano Pavarotti</artist>
  <country>UK</country>
  <company>DECCA</company>
  <price>9.90</price>
  <year>1991</year>
</cd>
<cd>
  <title>The dock of the bay</title>
  <artist>Otis Redding</artist>
  <country>USA</country>
  <company>Stax Records</company>
  <price>7.90</price>
  <year>1968</year>
</cd>
<cd>
  <title>Picture book</title>
  <artist>Simply Red</artist>
  <country>EU</country>
  <company>Elektra</company>
  <price>7.20</price>
  <year>1985</year>
</cd>
<cd>
  <title>Red</title>
  <artist>The Communards</artist>
  <country>UK</country>
  <company>London</company>
  <price>7.80</price>
  <year>1987</year>
</cd>
<cd>
  <title>Unchain my heart</title>
  <artist>Joe Cocker</artist>
  <country>USA</country>
  <company>EMI</company>
  <price>8.20</price>
```

```
<year>1987</year>
</cd>
</catalog>
```

Câu 1

Viết XSLT cho nội dung XML trên với yêu cầu in ra

- Chỉ liệt kê các CD có giá > 10
- Xếp theo trật tự giá giảm dần.

Câu trả lời:

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <body>
        <h2>Câu 1</h2>
        <table border="1">
          <tr bgcolor="#E0E0E0">
            <th style="text-align:left">Title</th>
            <th style="text-align:left">Artist</th>
            <th style="text-align:left">Country</th>
            <th style="text-align:left">Company</th>
            <th style="text-align:left">Price</th>
            <th style="text-align:left">Year</th>
          </tr>
          <xsl:for-each select="catalog/cd">
            <xsl:sort select="price" order="descending"
data-type="number" />
            <xsl:if test="price > 10">
              <tr>
                <td>
                  <xsl:value-of select="title" />
                </td>
                <td>
                  <xsl:value-of select="artist" />
                </td>
                <td>
                  <xsl:value-of select="country" />
                </td>
                <td>
                  <xsl:value-of select="company" />
                </td>
                <td>
                  <xsl:value-of select="price" />
                </td>
                <td>
                  <xsl:value-of select="year" />
                </td>
              </tr>
            </xsl:if>
          </xsl:for-each>
        </table>
      </body>
    </html>
  </template>
</xsl:stylesheet>
```

```

        </td>
      </tr>
    </xsl:if>
  </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>

```

Câu 2

Viết XSLT cho bài CD với yêu cầu in ra

- Sắp xếp theo giá tăng dần
- Nếu giá rẻ ($\text{price} < 8$) thì in ra với nền xanh lá cây
- Nếu giá trung bình ($8 \leq \text{price} < 10$) thì in ra với nền vàng
- Nếu giá mắc ($\text{price} \geq 10$) thì in ra với nền đỏ

Câu trả lời:

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <body>
        <h2>Câu 2</h2>
        <table border="1">
          <tr bgcolor="#E0E0E0">
            <th style="text-align:left">Title</th>
            <th style="text-align:left">Artist</th>
            <th style="text-align:left">Country</th>
            <th style="text-align:left">Company</th>
            <th style="text-align:left">Price</th>
            <th style="text-align:left">Year</th>
          </tr>

          <xsl:for-each select="catalog/cd">
            <xsl:sort select="price" order="ascending"
data-type="number" />
            <xsl:choose>
              <xsl:when test="price < 8">
                <tr bgcolor="#0f0">
                  <td>
                    <xsl:value-of select="title"
/>
                  </td>
                  <td>
                    <xsl:value-of select="artist"
/>

```

```

        </td>
        <td>
            <xsl:value-of select="country"
/>
        </td>
        <td>
            <xsl:value-of select="company"
/>
        </td>
        <td>
            <xsl:value-of select="price"
/>
        </td>
        <td>
            <xsl:value-of select="year" />
        </td>
    </tr>
</xsl:when>
<xsl:when test="price >= 8 and price
<= 10 ">
    <tr bgcolor="#ff0">
        <td>
            <xsl:value-of select="title"
/>
        </td>
        <td>
            <xsl:value-of select="artist"
/>
        </td>
        <td>
            <xsl:value-of select="country"
/>
        </td>
        <td>
            <xsl:value-of select="company"
/>
        </td>
        <td>
            <xsl:value-of select="price"
/>
        </td>
        <td>
            <xsl:value-of select="year" />
        </td>
    </tr>
</xsl:when>
<xsl:otherwise>
    <tr bgcolor="#f00">
        <td>
            <xsl:value-of select="title"
/>
        </td>
        <td>
            <xsl:value-of select="artist"

```

```

/>
                                </td>
                                <td>
                                    <xsl:value-of select="country"
/>
                                </td>
                                <td>
                                    <xsl:value-of select="company"
/>
                                </td>
                                <td>
                                    <xsl:value-of select="price"
/>
                                </td>
                                <td>
                                    <xsl:value-of select="year" />
                                </td>
                            </tr>
                        </xsl:otherwise>
                    </xsl:choose>
                </xsl:for-each>
            </table>
        </body>
    </html>
</xsl:template>
</xsl:stylesheet>

```

Câu 3

Viết XSLT cho bài CD với yêu cầu in ra

- Sắp xếp theo giá tăng dần
- Nếu cùng giá thì sắp xếp theo tên Nghệ sĩ (artist)
- Nếu cùng giá, cùng nghệ sĩ thì xếp theo trật tự tên CD

Câu trả lời:

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:template match="/">
        <html>
            <body>
                <h2>Câu 3</h2>
                <table border="1">
                    <tr bgcolor="#E0E0E0">
                        <th style="text-align:left">Title</th>
                        <th style="text-align:left">Artist</th>
                        <th style="text-align:left">Country</th>
                        <th style="text-align:left">Company</th>
                        <th style="text-align:left">Price</th>

```



```

        <th style="text-align:left">Year</th>
    </tr>

    <xsl:for-each select="catalog/cd">
        <xsl:sort select="price" order="ascending"
data-type="number" />
        <xsl:sort select="artist" order="ascending"
data-type="text" />
        <xsl:sort select="title" order="ascending"
data-type="text" />
        <tr>
            <td>
                <xsl:value-of select="title" />
            </td>
            <td>
                <xsl:value-of select="artist" />
            </td>
            <td>
                <xsl:value-of select="country" />
            </td>
            <td>
                <xsl:value-of select="company" />
            </td>
            <td>
                <xsl:value-of select="price" />
            </td>
            <td>
                <xsl:value-of select="year" />
            </td>
        </tr>
    </xsl:for-each>
</table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```