1. To select all the elements from the root

<?xml version="1.0" encoding="ISO-8859-1"?>

<!-- Edited by XMLSpy® -->

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<td><xsl:value-of select="."/></td>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Empire Burlesque Bob Dylan USA Columbia 10.90 1985 Hide your heart Bonnie Tyler UK CBS Records 9.90 1988 Greatest Hits Dolly Parton USA RCA 9.90 1982 Still got the blues Gary Moore UK Virgin records 10.20 1990 Eros Eros Ramazzotti EU BMG 9.90 1997 One night only Bee Gees UK Polydor 10.90 1998 Sylvias Mother Dr.Hook UK CBS 8.10 1973 Maggie May Rod Stewart UK Pickwick 8.50 1990 Romanza Andrea Bocelli EU Polydor 10.80 1996 When a man loves a woman Percy Sledge USA Atlantic 8.70 1987 Black angel Savage Rose EU Mega 10.90 1995 1999 Grammy Nominees Many USA Grammy 10.20 1999 For the good times Kenny Rogers UK Mucik Master 8.70 1995 Big Willie style Will Smith USA Columbia 9.90 1997 Tupelo Honey Van Morrison UK Polydor 8.20 1971 Soulsville Jorn Hoel Norway WEA 7.90 1996 The very best of Cat Stevens UK Island 8.90 1990 Stop Sam Brown UK A and M 8.90 1988 Bridge of Spies T`Pau UK Siren 7.90 1987 Private Dancer Tina Turner UK Capitol 8.90 1983 Midt om natten Kim Larsen EU Medley 7.80 1983 Pavarotti Gala Concert Luciano Pavarotti UK DECCA 9.90 1991 The dock of the bay Otis Redding USA Atlantic 7.90 1987 Picture book Simply Red EU Elektra 7.20 1985 Red The Communards UK London 7.80 1987 Unchain my heart Joe Cocker USA EMI 8.20 1987

1. To select the first artist element

<?xml version="1.0" encoding="ISO-8859-1"?>

<!-- Edited by XMLSpy® -->

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**Artist: <xsl:value-of select="/catalog/cd/artist"/>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

**Result:**

**My CD Collection**

Artist: Bob Dylan

3.To select all the artist elements

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:for-each select="catalog/cd">**

**Artist: <xsl:value-of select="artist"/>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Artist: Bob Dylan Artist: Bonnie Tyler Artist: Dolly Parton Artist: Gary Moore Artist: Eros Ramazzotti Artist: Bee Gees Artist: Dr.Hook Artist: Rod Stewart Artist: Andrea Bocelli Artist: Percy Sledge Artist: Savage Rose Artist: Many Artist: Kenny Rogers Artist: Will Smith Artist: Van Morrison Artist: Jorn Hoel Artist: Cat Stevens Artist: Sam Brown Artist: T`Pau Artist: Tina Turner Artist: Kim Larsen Artist: Luciano Pavarotti Artist: Otis Redding Artist: Simply Red Artist: The Communards Artist: Joe Cocker

4. To select the title of the CD for the author Bob Dylan

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:for-each select="catalog/cd[artist='Bob Dylan']">**

**<xsl:value-of select="title"/>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Empire BurlesqueHide your heart

5. To select the titles of the CD’s whose price is >10

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:for-each select="catalog/cd">**

**<xsl:if test="price &gt; 10">**

**<xsl:value-of select="title"/>**

**</xsl:if>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

6. To select the title and prize of CDs sorted in ascending order

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:for-each select="catalog/cd">**

**<xsl:sort select="title"/>**

**<xsl:value-of select="title"/>**

**<xsl:value-of select="price"/>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Big Willie style9.90Black angel10.90Bridge of Spies7.90Empire Burlesque10.90Eros9.90For the good times8.70Greatest Hits9.90Hide your heart9.90Maggie May8.50Midt om natten7.80One night only10.90Pavarotti Gala Concert9.90Picture book7.20Private Dancer8.90Red7.80Romanza10.80Soulsville7.90Still got the blues10.20Stop8.90Sylvias Mother8.10The dock of the bay7.90The very best of8.90Tupelo Honey8.20Unchain my heart8.20When a man loves a woman8.70

7. Select the authors of the book with title

XML

<?xml version="1.0" encoding="ISO-8859-1"?>

<!-- Edited by XMLSpy® -->

<store>

<book title="Computer Networks" lang="tamil">

<author>Andrew</author>

<author>Tanenbaum</author>

<price>130</price>

</book>

<book title="Web Technology" lang="en">

<author>Jeffrey</author>

<author>Jackson</author>

<price>250</price>

</book>

</store>

<xsl:template match="//book">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:value-of select="@title"/>**

**<xsl:for-each select="author">**

**<xsl:value-of select="."/>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Computer NetworksAndrewTanenbaum

**My CD Collection**

Web TechnologyJeffreyJackson

8. Select the title and authors of the English books

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

**<xsl:for-each select="store/book[@lang='en']">**

**<xsl:value-of select="@title"/>**

**<xsl:for-each select="author">**

**<xsl:value-of select="."/>**

**</xsl:for-each>**

**</xsl:for-each>**

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Output:

**My CD Collection**

Web TechnologyJeffreyJackson

9. Print the author for the CDs whose price>10$, for the others print price itself

<xsl:template match="/">

<html>

<body>

<h2>My CD Collection</h2>

<table border="1">

<tr bgcolor="#9acd32">

<th>Title</th>

<th>Artist</th>

</tr>

<xsl:for-each select="catalog/cd">

<tr>

<td><xsl:value-of select="title"/></td>

<xsl:choose>

<xsl:when test="price > 10">

<td bgcolor="#ff00ff">

<xsl:value-of select="artist"/>

</td>

</xsl:when>

<xsl:otherwise>

<td><xsl:value-of select="price"/></td>

</xsl:otherwise>

</xsl:choose>

</tr>

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>

**My CD Collection**

|  |  |
| --- | --- |
| **Title** | **Artist** |
| Empire Burlesque | Bob Dylan |
| Hide your heart | 9.90 |
| Greatest Hits | 9.90 |
| Still got the blues | Gary Moore |
| Eros | 9.90 |
| One night only | Bee Gees |
| Sylvias Mother | 8.10 |
| Maggie May | 8.50 |
| Romanza | Andrea Bocelli |
| When a man loves a woman | 8.70 |
| Black angel | Savage Rose |
| 1999 Grammy Nominees | Many |
| For the good times | 8.70 |
| Big Willie style | 9.90 |
| Tupelo Honey | 8.20 |
| Soulsville | 7.90 |
| The very best of | 8.90 |
| Stop | 8.90 |
| Bridge of Spies | 7.90 |
| Private Dancer | 8.90 |
| Midt om natten | 7.80 |
| Pavarotti Gala Concert | 9.90 |
| The dock of the bay | 7.90 |
| Picture book | 7.20 |
| Red | 7.80 |
| Unchain my heart | 8.20 |

10.

XML

<?xml version="1.0" encoding="ISO-8859-1"?>

<!-- Edited by XMLSpy® -->

<contacts>

<entry>

<name prefix="Mr">Zeck</name>

<address>

<city>Chennai</city>

<pin>603110</pin>

</address>

</entry>

</contacts>

<?xml version="1.0" encoding="ISO-8859-1"?>

<!-- Edited by XMLSpy® -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match='entry'>

<tr>

<td><xsl:apply-templates select='name'/></td>

</tr>

</xsl:template>

<xsl:template match='name'>

<xsl:value-of select='@prefix'/><xsl:text> </xsl:text>

<xsl:value-of select='.'/>

</xsl:template>

</xsl:stylesheet>

Output:

Mr Zeck

11. Select the first three titles of the CDs

12. For every student print the roll no and the Grade. (80-100 🡪 A, 50-80 🡪 B, <50 🡪 F)

<result>

<student roll=’1’><marks>80</marks></student>

<student roll=’2’><marks>60</marks></student>

<student roll=’2’><marks>23</marks></student>

</result>

RollNo Grade

1. A
2. B

13. Given the address book xml, print the name with Salutation, Print the address with the space between every value, print the phone numbers of both home and the office. Use apply templates