

## CSE 5347/7347 XML

Homework 3 : Due Feb: 8 Distance: Feb 11

- Modify the cdCatalog.XML you created in HW2 so that each CD has a unique ID.
- Add an attribute called **similarTo** to at least 4 CDs to allow an association to be made between similar musical styles. The **similarTo** attribute should have values of attribute type IDREFS to refer to other CDs.
- Name the new XML: cdCatalog2.XML
- Move your entity definitions to an INTERNAL DTD so that the entities appear when the XML is viewed in a browser.
- Modify the DTD from HW2 to account for the changes in this assignment and name it cdCatalog2.DTD.
- Remove the reference to the EXTERNAL DTD in your XML. Your XML should only contain your INTERNAL DTD with your ENTITY references.
- Validate your new XML with your new External DTD using a validation tool such as Oxygen or an online validator.

Write an XML Schema for cdCatalog2.XML. It should include:

- Price should be US price with two decimal places (XSD restriction on xsd:decimal with fractionDigits facet)
- Use an enumeration type for COUNTRY
- Year should always be a valid 4 digit year

**Note: Use the style for creating XSD that uses the ref="name" pattern as outlined at [http://www.w3schools.com/schema/schema\\_example.asp](http://www.w3schools.com/schema/schema_example.asp) -- see section Divide the Schema**

Validate your XML against your XSD using Oxygen or a validation tool  
(see: <http://www.utilities-online.info/xsdvalidation> )

DO:

- Publish your XML on a public server. Name it cdCatalog2.xml. Test that it is visible in a browser
- Publish your DTD on a public server. Name it cdCatalog2.dtd. Test that it is accessible via a browser.
- Publish your DTD on a public server. Name it cdCatalog2.xsd. Test that it is accessible via a browser.

TEST

- Test that your XML validates against your DTD. Take a screen shot of the result of the validation.
- Test that your XML validates against your XSD. Take a screen shot of the result of the validation. You do not need to include a reference to the XSD internally within your XML.

Submit to Blackboard – a PDF that contains in order:

- A. Homework 3 Your name
- B. XML in courier font, indented
- C. DTD in courier font indented
- D. XSD in courier font, indented
- E. Screen shot showing the result of validation
- F. Links to your XML, DTD and XSD that is available on a public server.

