Fundamentals of Data Management

Credit Tasks 2.2: Semi-Structured Data: XML and JSON

Overview

In this tutorial, you'll create and query an XML document and translate it to JSON.

Purpose

Learn how to create and navigate tree-structured data formats. Acquaint yourself with the XML and JSON formats.

Task

Use a text editor (such as Notepad++ to construct your answers to the questions below. Test your XQuery expressions on the web site shown under 'Resources'.

Time

This task should be completed in your second lab class and submitted for feedback in the second lab or at the beginning of lab 3.

Resources

- Online module (from Blackboard)
- Online resources, e.g.
  - https://www.w3schools.com/xml/xquery_example.asp (XQuery)
  - http://www.tutorialspoint.com/xquery/index.htm (XQuery)
- Web site for trialling XQuery expressions:
  - http://videlibri.sourceforge.net/cgi-bin/xidelcgi

Feedback

Discuss your solutions with the tutorial instructor.

Next

Get started on module 3.

Credit Tasks 2.2 — Submission Details and Assessment Criteria

Document your solutions to the tasks in a report using the template provided. Upload the Pass level work to Doubtfire. The tutors will discuss them with you in the lab.

Subtask 2.2.2

JSONiq is the query language for JSON. Have a look at the web site http://www.jsoniq.org/docs/JSONiq-usecases/html-single/ (or any other suitable JSONiq site) and do task 1.2 JSONiq.

Document the query and upload.

If you would like to validate your code (optional), you can use NodeJS on a Mac – possibly Unix and Linux. Isuru shows you how:

https://www.youtube.com/watch?v=zEL3GVYuLRw&ab_channel=IsuruKusumal