



# Fundamentals of Data Management

## Credit Tasks 2.2.1: 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 before end of your second lab class and submitted for feedback.

### Resources

- Online module (from Blackboard)
- Online resources, e.g.
  - [http://www.w3schools.com/xquery/xquery\\_example.asp](http://www.w3schools.com/xquery/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 Credit Task 2.2.2.

## Credit Tasks 2.2.1— 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 2.2.1

Change the XML document to JSON notation. Check your solution using the JSON validator at <http://jsonlint.com/>.

**Note:** Don't use the validator before you have finished your own solution.

Document the command you used in your report.