ISIT315

Assignment 3 (10%)

Due date: Marking will be done during lab tutorial in Week 9

This assignment has two questions.

Question 1 (2 marks)

- Use the PeriodicTable ontology given in Week 7, create **FOUR** SPARQL queries (these queries should be different from the tasks you have done in Week 7). You should be able to demonstrate the use of different SPARQL syntaxes.
- Store the query in a text file.
- You are required to run the queries to show to your tutor. For each query, explain to your tutor what SPARQL syntax you have used.
- Note that mark will only be awarded for correct output.

Question 2 (8 marks)

- Open the ontology from URL http://protege.stanford.edu/ontologies/travel.owl
- Populate the ontology with meaning real data with various instances/individuals for different classes in this ontology. Save your ontology using your studentnumber as the filename.
- Create **EIGHT** SPARQL queries for this ontology
- Store the query in the same text file as Question 1.
- You are required to run the queries to show to your tutor. For each query, explain to your tutor what SPARQL syntax you have used.
- Note that mark will only be awarded for correct output.

What to submit

You are required to submit the following two files to Moodle assignment dropbox

- Submit the text file with all SPARQL queries. Only 1 text file to be submitted. Ensure that you label each query clearly, for example Question 1a, Question 1b, etc. and Question 2a, Question 2b, etc. Your text file must have 10 SPARQL queries.
- Submit the ontology file for Question 2

Marking criteria

Question 1 (2 marks)

- Each correct SPARQL query with correct output is 0.5 mark

Question 2 (8 marks)

- Each correct SPARQL query with correct output is 1 mark.