

Studying for the Exam (Part 2)

Business architectures

- Business-IT Alignment

- Mappings between business concepts and IT concepts
- Tools for expressing business and IT architectures
- Major case study provides examples

- Information modelling

- Approaches (relational / semantic)
- Semantic technologies (RDF, RDFS, OWL)
- Existing ontologies / Designing ontologies
- Querying ontologies (SPARQL)

RDF Turtle notation

```
@prefix dbo:
<http://dbpedia.org/ontology/visited> .
@base <http://dbpedia.org/resource/> .

<Australia> dbo:capital <Canberra> ;
              dbo:currency
<Australian_dollar> .
```

```
@prefix dbo:
<http://dbpedia.org/ontology/visited> .
@base <http://dbpedia.org/resource/> .

<Australia> dbo:demonym "Australian"@en ,
"Aussie"@en .
```

SPARQL

- Understanding a query e.g.

```
prefix ex: <http://example.org/>
select ?x where {
  ?x ex:author ?doc
}
group by ?x
```

- Write simple queries
 - Simple syntactic mistakes OK

Questions ?