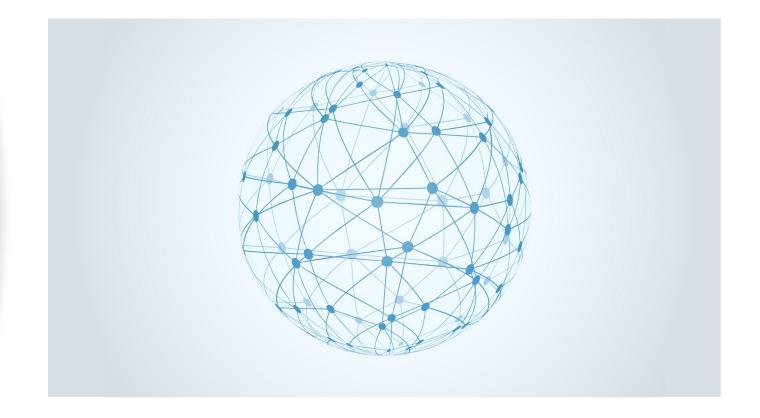
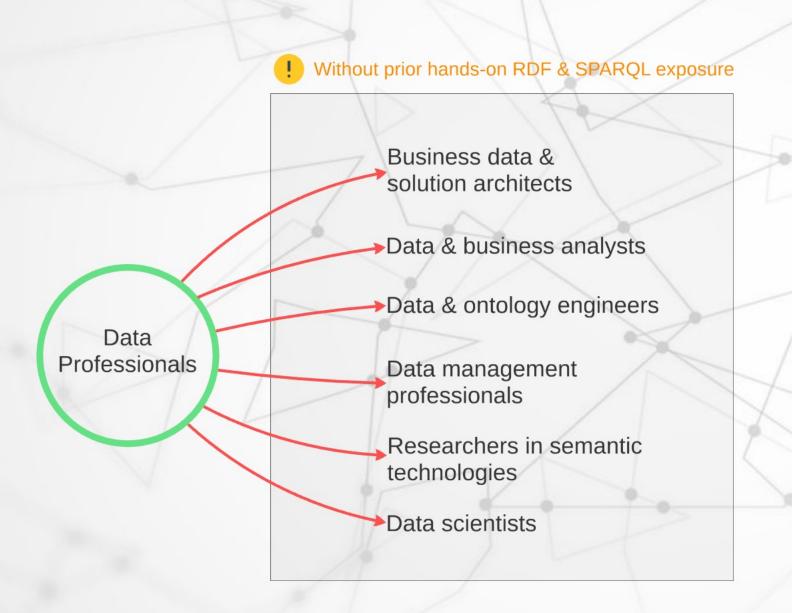
RDF and SPARQL Essentials



Introduction

Audience



Learning Objectives

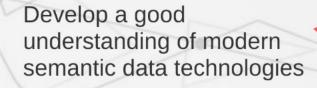
SPARQL exposure

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Comfortably speak RDF & SPARQL

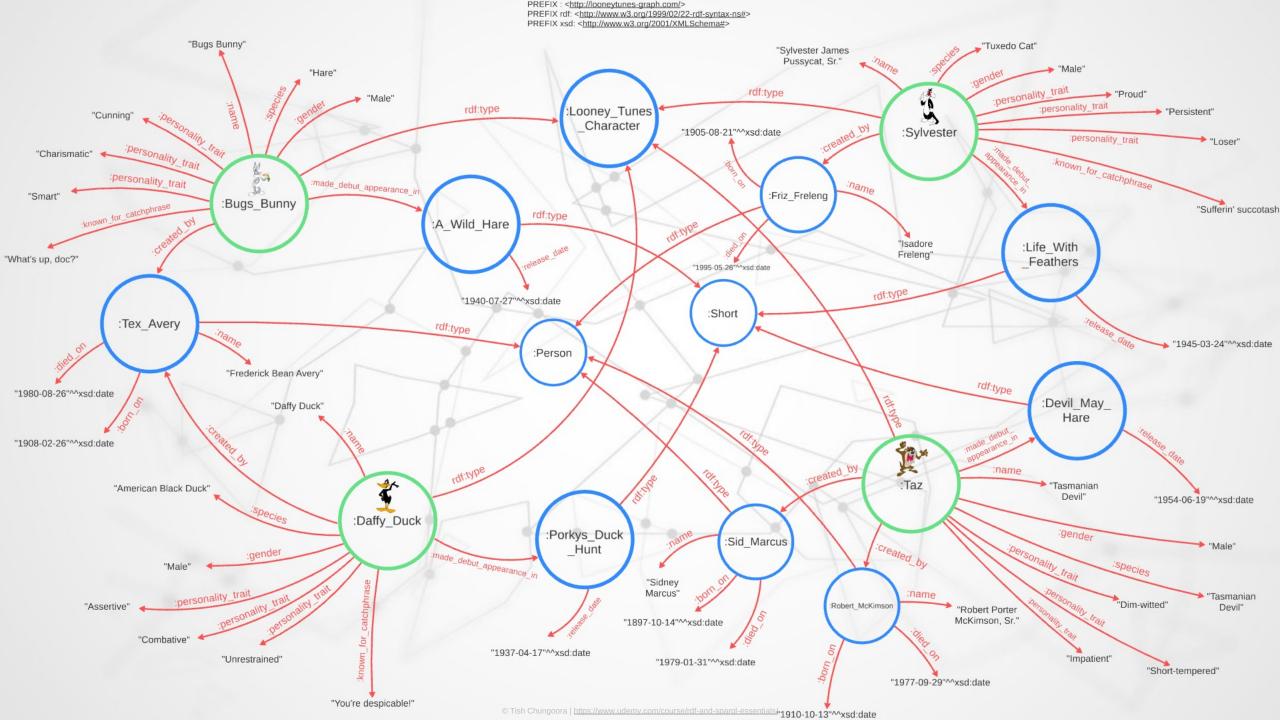
Compose RDF data & perform CRUD (create, read, update, delete) operations using SPARQL

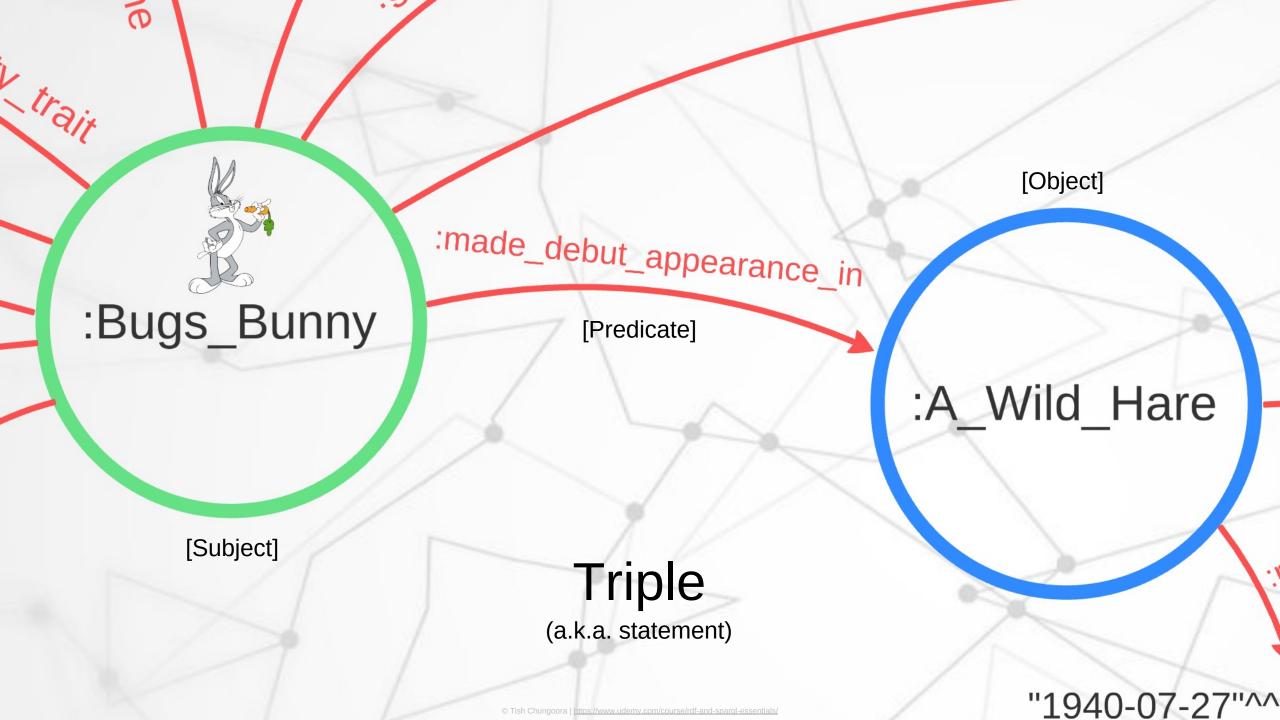
Build a rock-solid foundation for more advanced training in semantic approaches



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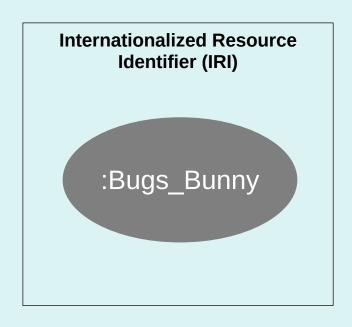
02 Building blocks of an RDF graph



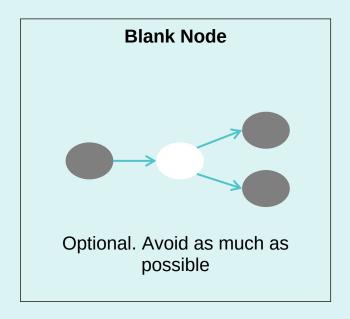


RDF Nodes

There are three kinds of nodes in RDF: IRI, Literal and Blank Node







Literal

Datatype values

Serialization	Datatype
"Bugs Bunny"	xsd:string
"Bugs Bunny"^^xsd:string	xsd:string
"Bugs Bunny"@en	rdf:langstring
"1940-07-27"^^xsd:date	xsd:date
101	xsd:integer
2.0	xsd:decimal
True	xsd:boolean

03 Authoring RDF graph data



Blazegraph Workbench

(i) localhost:9999/blazegraph/#update

Blazegraph - Wiki

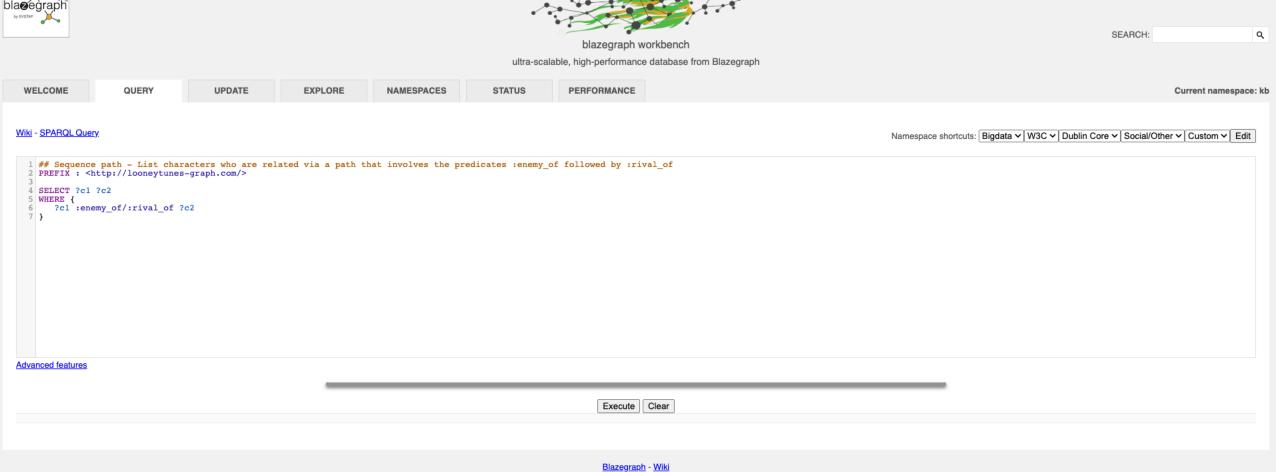
04 Querying with SPARQL: The essentials



Blazegraph Workbench

Blazegraph - Wiki

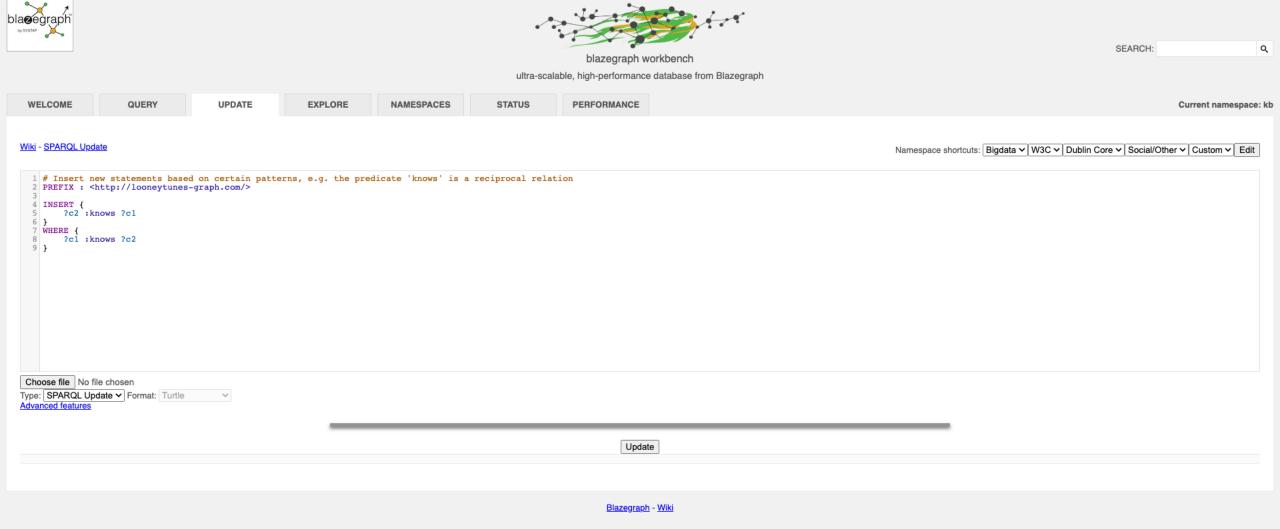
O5 Querying with SPARQL: Property paths



Blazegraph Workbench

(i) localhost:9999/blazegraph/#query

06 SPARQL Update



Blazegraph Workbench

(i) localhost:9999/blazegraph/#update

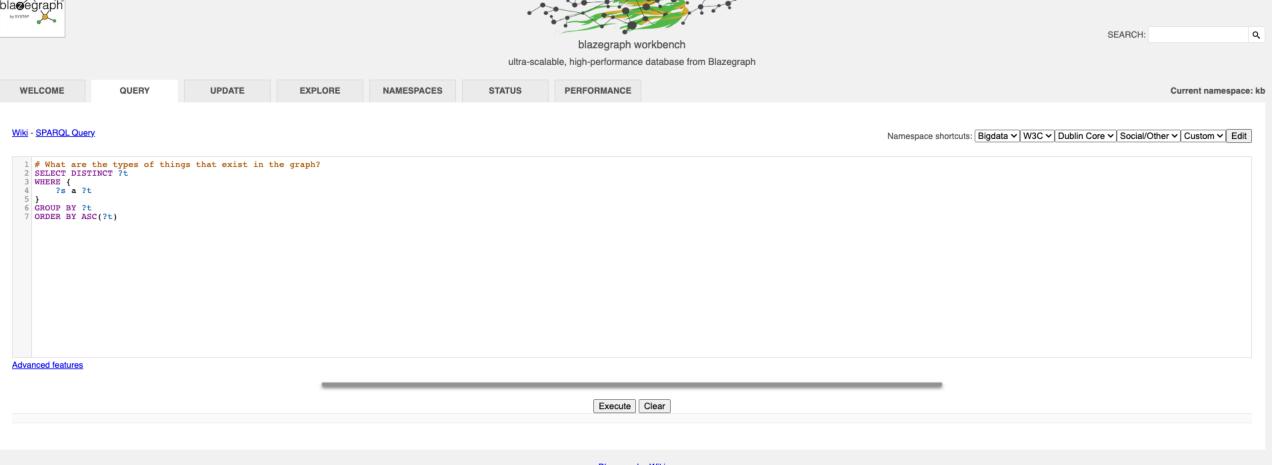
Introducing Named Graphs



Blazegraph Workbench

i localhost:9999/blazegraph/#query

08 Exploring the graph schema



Blazegraph Workbench

← → C (i) localhost:9999/blazegraph/#query

Blazegraph - Wiki

09 Course wrap-up