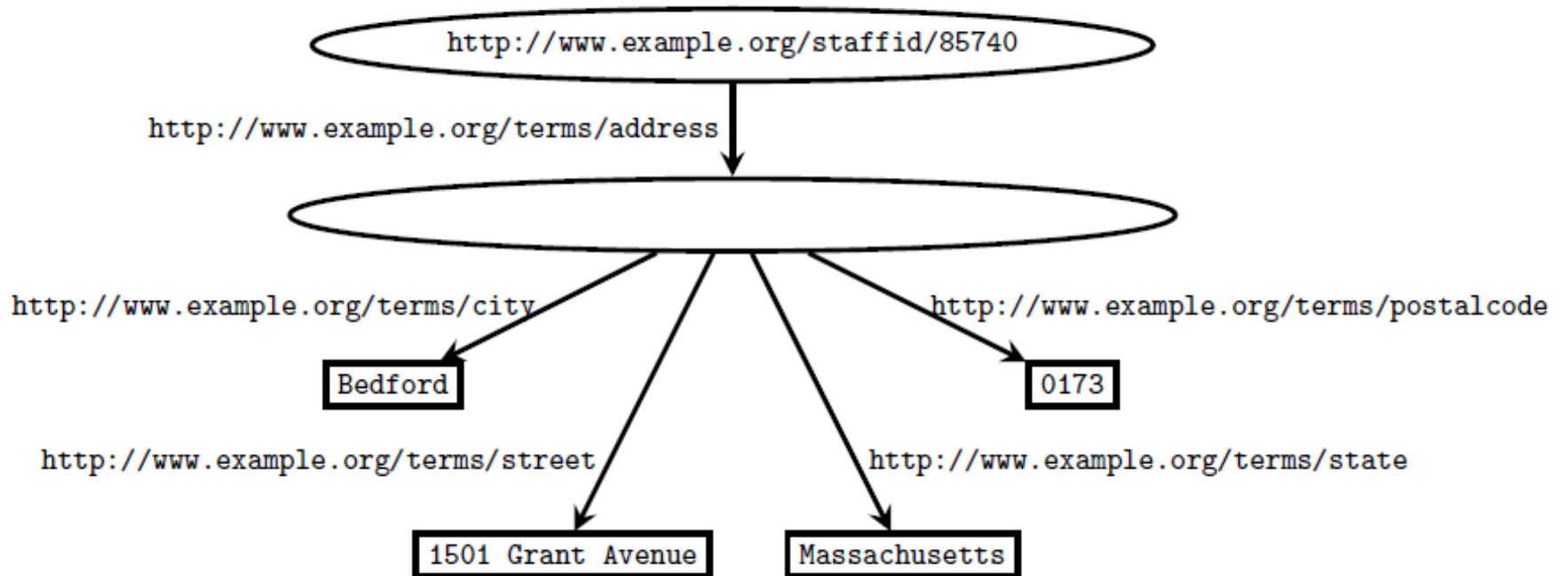


# INFO-H-509

## Exercises 5

RDF & SPARQL

# RDF



# Turtle

@prefix staff: <http://www.example.org/staffid/> .

@prefix terms: <http://www.example.org/terms/> .

```
staff:85740      terms:address      _:addr          .
_:addr          terms:city         "Bedford"^^xsd:string ;
                terms:street      "1501 Grant Avenue" ;
                terms:state       "Massachusetts" ;
                terms:postalcode  "0713" .
staff:85740      a          terms:employee  .
```

# RDF/XML

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:exterms="http://www.example.org/terms/">

  <rdf:Description
    rdf:about="http://www.example.org/staffid/85740">
    <exterms:address rdf:nodeID="abc"/>
  </rdf:Description>

  <rdf:Description rdf:nodeID="abc">
    <exterms:city>Bedford</exterms:city>
    <exterms:street>1501 Grant Avenue</exterms:street>
    <exterms:state>Massachusetts</exterms:state>
    <exterms:postalcode>0173</exterms:postalcode>
  </rdf:Description>
</rdf:RDF>
```

# RDF/XML

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:exterms="http://www.example.org/terms/"
  base="http://www.example.org/staffid/" >

  <rdf:Description rdf:ID="85740">
    <exterms:addresss rdf:nodeID="abc"/>
  </rdf:Description>

  <rdf:Description rdf:nodeID="abc">
    <exterms:city>Bedford</exterms:city>
    <exterms:street>1501 Grant Avenue</exterms:street>
    <exterms:state>Massachusetts</exterms:state>
    <exterms:postalcode>0173</exterms:postalcode>
  </rdf:Description>
</rdf:RDF>
```

# RDF/XML

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:exterms="http://www.example.org/terms/">

  <rdf:Description
    rdf:about="http://www.example.org/staffid/85740">
    <exterms:address>
      <rdf:Description>
        <exterms:city>Bedford</exterms:city>
        <exterms:street>1501 Grant Avenue</exterms:street>
        <exterms:state>Massachusetts</exterms:state>
        <exterms:postalcode>0173</exterms:postalcode>
      </rdf:Description>
    </exterms:address>
  </rdf:Description>
</rdf:RDF>
```

# SPARQL

```
PREFIX terms: <http://www.example.org/terms/>
```

```
PREFIX rdf:    <http://www.w3.org/1999/02/22-rdf-syntax-  
ns#>
```

```
SELECT ?staff
```

```
WHERE {
```

```
    ?staff      terms:address      ?address      .
```

```
    ?address    terms:state        "Massachusetts" .
```

```
}
```

Qui habite dans le Massachussets?

# SPARQL

```
PREFIX terms: <http://www.example.org/terms/>
```

```
PREFIX rdf:    <http://www.w3.org/1999/02/22-rdf-syntax-  
ns#>
```

```
SELECT DISTINCT ?state
```

```
WHERE {
```

```
    ?staff      terms:address      ?address      .
```

```
    ?address    terms:state        ?state        .
```

```
}
```

Dans quels états habitent les membres du personnel?