5-8a.rq

```
# Give a query that show all titles that a woman has ever had. With SELECT DISTINCT you can, just as
# in SQL, filter out any duplicates in the resulting list. There are 42 unique titles.

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT DISTINCT ?title
WHERE
 { ?i rdf:type a:Individual .
   ?i a:sex "F" .
   ?i a:title ?title .
 }
```

5-8b.rq

```
# Give a query that shows all places (a:place) where once a royal marriage (a:Marriage)
has taken place.
# It is quite a list (I haven?t counted them) starting with ?Paris,France? and
?Amsterdam,Netherlands?.

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT DISTINCT ?place
WHERE
 { ?m rdf:type a:Marriage .
   ?m a:place ?place .
 }
```

5-9a.rq

```
# Expand the query of the previous assignment in such a way that it only lists places in The Netherlands
# (i.e., that contain the word ?Netherlands?). There are three places in the Netherlands: Amsterdam,
# Haus Doorn, The Hague.

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT DISTINCT ?place
WHERE
 { ?m rdf:type a:Marriage .
   ?m a:place ?place .
  FILTER contains(?place, "Netherlands")
 }
```

5-9b.rq

```
# Give a query that shows the name of the husband of ?Beatrix of Netherlands //?. The answer should
# be ?Claus /von Amsberg/?.

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT ?name
WHERE
 { ?q a:name "Beatrix of_Netherlands //" .
   ?q a:spouseIn ?f .
   ?member a:spouseIn ?f .
   ?member a:name ?name .
   ?member a:sex "M" .
 }
```

5-10a.rq

```
# Give a query that lists all persons (a:Individual) who have ?Beatrix? or ?Beatrice? in
their name, with
# their title when available in the data. There a 9 persons who are called ?Beatrix? or
?Beatrice?, but
# one of them is present with and without title, so you could get her twice

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT DISTINCT ?name ?title
WHERE
 {
    ?i rdf:type a:Individual .
    OPTIONAL {?i a:title ?title} .
    {?i a:name ?name .
   FILTER contains(?name, "Beatrix") }
    UNION
    {?i a:name ?name .
    FILTER contains(?name, "Beatrice") }
 }
```

5-10b.rq

```
# Give a query that lists all persons in the family of ?Beatrix of Netherlands //?,
i.e., her husband as well
# as her children. The list should contain four persons: ?Claus von Amsberg?,
?Constantine?, ?John
# Friso?, and ?William Alexander?.

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>

SELECT ?name
WHERE
  {
     ?q a:name "Beatrix of_Netherlands //" .
     ?q a:spouseIn ?f.
     { ?children a:childIn ?f.
     ?children a:name ?name . }
     UNION
     { ?spouse a:spouseIn ?f .
     ?spouse a:name ?name . }
  }
```

5-12a.sh

```bash
#!/bin/bash
mkdir new_database
bin/tdbloader2 --loc=new_database royal92/royal92.nt
bin/tdbquery --loc=new_database --query=exercises/5-10a.rq
```

#!/bin/bash
mkdir new_database
bin/tdbloader2 --loc=new_database royal92/royal92.nt
bin/tdbquery --loc=new_database --query=exercises/5-10a.rq

5-13a.rq

```
# Add such a owl:sameAS triple to royal92.owl to link ?our? Beatrix-object to DBpedia?s
(see http://
#  dbpedia.org/resource/Beatrix_of_the_Netherlands).  Then,  query  for  all  DBpedia
properties

PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX a: <http://www.daml.org/2001/01/gedcom/gedcom#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>

SELECT ?local ?remote ?remote_property ?remote_value
WHERE {
   ?q a:name "Beatrix of_Netherlands //" .
   ?q owl:sameAs ?remote .
   SERVICE  <http://dbpedia.org/sparql> {
      ?remote ?remote_property ?remote_value
   } .
}
```