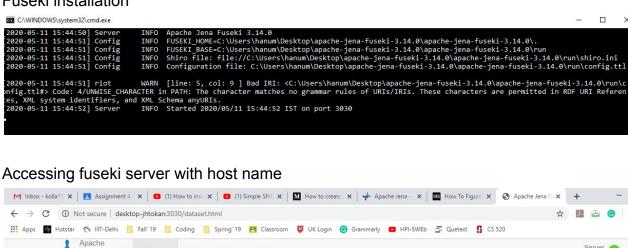
## Semantic Web - Winter 2020 Assignment 4

### Q1)

(a) The code for this part is in CSVtoTriples.java. OpenCSV parser is used for reading the csv file and making triples. All the triples are made with title as subject and remaining all as properties and objects. For handing the spaces in the title names, replace() method from String class is used.

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(b) Fuseki installation

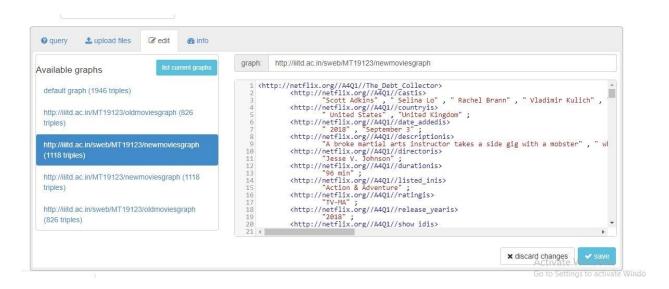


# Configuration file

Please select a dataset



**(c)** Default graphs and required named graphs are created.



### Q2)

a) We use filter here for getting the names which contains Shetty and for getting codirectors we use OPTIONAL.

```
Query:-
prefix Netflix: <a href="http://netflix.org//A4Q1//">
```

```
DISTINCT
                                                                       ?coDirector
SELECT
                                      ?title
                                                   ?director
                                                                                             FROM
<a href="http://iiitd.ac.in/sweb/MT19123/newmoviesgraph">http://iiitd.ac.in/sweb/MT19123/newmoviesgraph</a>
FROM <a href="http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph">http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph</a>
Where {
 ?title Netflix:directoris ?director . FILTER regex(?director, "Shetty") .
                                         Netflix:directoris
       OPTIONAL
                              ?title
                                                                    ?coDirector
                                                                                           FILTER
(!regex(?coDirector,"Shetty")).}
}
LIMIT 500
```

Query Command:-

C:\Users\hanum\Desktop\fuseki\bin>ruby

s-query

- --service=http://DESKTOP-JHTOKAN:3030/Netflix.csv
- --query=C:\Users\hanum\Desktop\2a.rq>Q2-a.txt

(b) FILTER is used to retrieve the movies of comedy and drama genre.

```
Query:-
     prefix Netflix: <a href="http://netflix.org//A4Q1//">http://netflix.org//A4Q1//>
        SELECT
                                        ?title
                                                                   ?genere
                                                                                                  FROM
        <a href="http://iiitd.ac.in/sweb/MT19123/newmoviesgraph">http://iiitd.ac.in/sweb/MT19123/newmoviesgraph</a>
        FROM <a href="http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph">http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph</a>
        WHERE {
        ?title Netflix:listed inis ?genere
                FILTER
        (regex(?genere,"Comedies")||regex(?genere,"Dramas")||regex(?genere,"Comedy
        "))
        LIMIT 500
        Query command:-
        C:\Users\hanum\Desktop\fuseki\bin>ruby
                                                                                                s-query
        --service=http://DESKTOP-JHTOKAN:3030/Netflix.csv
        --query=C:\Users\hanum\Desktop\2b.rq>Q2-b.txt
(c) Query
prefix Netflix: <a href="http://netflix.org//A4Q1//">http://netflix.org//A4Q1//>
SELECT
                 ?title
                               ?releaseDate
                                                        ?country
                                                                          ?description
                                                                                                  FROM
<a href="http://iiitd.ac.in/sweb/MT19123/newmoviesgraph">http://iiitd.ac.in/sweb/MT19123/newmoviesgraph</a>
FROM <a href="http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph">http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph</a>
WHERE {
 ?title Netflix:release_yearis ?releaseDate .
 ?title Netflix:countryis ?country.
 ?title Netflix:descriptionis ?description .
                   ( ?releaseDate >= "2010" && ?releaseDate <= "2020" &&
     FILTER
regex(?country,"United States") && regex(?description,"couple"))
LIMIT 500
```

Query command

```
C:\Users\hanum\Desktop\fuseki\bin>ruby
                                                                                    s-query
       --service=http://DESKTOP-JHTOKAN:3030/Netflix.csv
       --query=C:\Users\hanum\Desktop\2c.rq>Q2-c.txt
(d) Query
  prefix Netflix: <a href="http://netflix.org//A4Q1//">http://netflix.org//A4Q1//>
SELECT distinct ?movie1 ?movie2 ?director1 ?director2 ?duration FROM
<a href="http://iiitd.ac.in/sweb/MT19123/newmoviesgraph">http://iiitd.ac.in/sweb/MT19123/newmoviesgraph</a>
FROM <a href="http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph">http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph</a>
Where {
 ?movie1 Netflix:directoris ?director1.
       OPTIONAL {
                           ?movie2
                                        Netflix:directoris
                                                                  ?director2
                                                                                    FILTER
((?director2=?director1) && (?movie1 != ?movie2) && ?director1!=""
    && ?director2!="") }
  ?movie1 Netflix:durationis ?duration Filter ( ?duration>="60" && ?movie1 !="
&& ?movie2 !=")
}
Query command:-
       C:\Users\hanum\Desktop\fuseki\bin>ruby
                                                                                    s-query
       --service=http://DESKTOP-JHTOKAN:3030/Netflix.csv
       --query=C:\Users\hanum\Desktop\2d.rq>Q2-d.txt
(e) Query
    prefix Netflix: <http://netflix.org//A4Q1//>
              DISTINCT ?Movie ?Country ?Rating ?genere ?duration FROM
SELECT
<a href="http://iiitd.ac.in/sweb/MT19123/newmoviesgraph">http://iiitd.ac.in/sweb/MT19123/newmoviesgraph</a>
FROM <a href="http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph">http://iiitd.ac.in/sweb/MT19123/oldmoviesgraph</a>
Where {
               ?Movie
                               Netflix:countryis
                                                          ?Country
                                                                                    FILTER
(regex(?Country,"India")||regex(?Country,"United Kingdom")).
 ?Movie Netflix:ratingis ?Rating . FILTER regex(?Rating,"TV") .
                               Netflix:listed inis
               ?Movie
                                                                                    FILTER
(regex(?genere,"Documentaries")||regex(?genere,"Dramas")).
 ?Movie Netflix:durationis ?duration . FILTER regex(?duration,"102 min") .
LIMIT 500
```

### Query command:-

C:\Users\hanum\Desktop\fuseki\bin>ruby

s-query

- --service=http://DESKTOP-JHTOKAN:3030/Netflix.csv
- --query=C:\Users\hanum\Desktop\2e.rq>Q2-e.txt

```
C:\Users\hanum\Desktop\fuseki\bin>ruby s-query --service=http://DESKTOP-JHTOKAN:3030/Netfl
ix.csv --query=C:\Users\hanum\Desktop\2d.rq>Q2-d.txt
```

C:\Users\hanum\Desktop\fuseki\bin>ruby s-query --service=http://DESKTOP-JHTOKAN:3030/Netfl
ix.csv --query=C:\Users\hanum\Desktop\2a.rq>Q2-a.txt

C:\Users\hanum\Desktop\fuseki\bin>ruby s-query --service=http://DESKTOP-JHTOKAN:3030/Netfl
ix.csv --query=C:\Users\hanum\Desktop\2b.rq>Q2-b.txt

C:\Users\hanum\Desktop\fuseki\bin>ruby s-query --service=http://DESKTOP-JHTOKAN:3030/Netfl
ix.csv --query=C:\Users\hanum\Desktop\2c.rq>Q2-c.txt

C:\Users\hanum\Desktop\fuseki\bin>ruby s-query --service=http://DESKTOP-JHTOKAN:3030/Netfl
ix.csv --query=C:\Users\hanum\Desktop\2e.rq>Q2-e.txt

C:\Users\hanum\Desktop\fuseki\bin>