2.

a. Retrieve the name of all the movies that have a director with the last name as "Shetty". If present, retrieve the name of the co-director as well.

```
SPARQL Query :
```

```
prefix Netflix: <http://netflix.org//Question//>
select ?t ?d ?cod

where {
          ?t Netflix:directorIs ?d.
          FILTER (regex(?d,"Shetty")).
          OPTIONAL { ?t Netflix:directorIs ?cod.
          FILTER (!regex( ?cod, "Shetty" )) }
}
```

b. Retrieve the names of all the movies that are categorized as either a comedy or a drama or both.

```
SPARQL Query:
```

```
prefix Netflix: <http://netflix.org//Question//>
select ?title
Where{
   ?title Netflix:listed_inIs ?geners.
FILTER ( regex(?geners,"Comedy") ||
regex(?geners,"Comedies") || regex(?geners, "Dramas"))
}
```

c. Retrieve the names of all the movies that are released in the United States between the year 2010 and 2020 and that have the word "couple" in their description.

```
SPARQL Query:
```

```
prefix Netflix: <a href="http://netflix.org//Question//">http://netflix.org//Question//>
```

```
select ?title ?geners ?state ?des
where{
          ?title Netflix:release_yearls ?geners.
          ?title Netflix:countryls ?state.
          ?title Netflix:descriptionls ?des.
          FILTER ( ?geners >= 2010 && ?geners <= 2020
&& ?state = "United States" && regex(?des,"couple") )
}</pre>
```

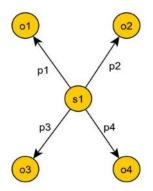
d. Write a SPARQL query involving property paths to retrieve two movies that have at least one director in common and have a run time of greater than or equal to 60 minutes.

```
SPARQL Query:
```

```
prefix Netflix: < http://netflix.org//Question//>
select distinct ?title1 ?title2
WHERE {
  ?title1 Netflix:directorIs ?director1.
OPTIONAL { ?title2 Netflix:directorIs ?director2
FILTER( ?director1 = ?director2 && ?title1 != ?title2
  && ?director1!= "" && ?director2 !="")}
?title1 Netflix:directorIs ?duration FILTER( ?duration >=
"60 mins" && ?title1 != " && ?title2 != ")
}
```

e. Construct a SPARQL query of your choice on your movie dataset that satisfies

the following star pattern (join on the subject).



SPARQL QUERY: prefix Netflix: http://netflix.org//Question//> select distinct ?title ?director ?release ?duration where{ ?title Netflix:countryls ?country . FILTER(regex(?country,"India")) ?title Netflix:directorls ?director.

All the above queries were run on RUBY. Output file is attached.

}

?title Netflix:release_yearls ?release. ?title Netflix:durationls ?duration.