

Efe Beydoğan

21901548

CS353 Homework Assignment 3

Q1)

a)

select title, year

from Movie

where directorName in (select name as directorName

from Director

where country = "Turkey" and 2022 – birthYear < 40)

b)

select MS.name

from MovieStar MS

where MS.gender = "female" and MS.s-id in (select S.s-id

from StarIn S, Movie M

where S.m-id = M.m-id and M.genre = "horror"

and 2022 – M.year <= 10 and directorName in

(select name as directorName

from Director

where country = "Turkey"))

c)

select MS.name, MS.country

from MovieStar MS

where 2022 – MS.birthYear < 20 and MS.s-id in (select S.s-id

from StarIn S, Movie M

where M.directorName = "Quentin Tarantino" and

M.year between 2000 and 2020 and M.m-id = S.m-id)

order by MS.country

d)

```
select avg(M.Rating) as avg-rating
from Movie M
where M.genre = "western" and M.m-id in (select S.m-id
                                         from StarIn S, MovieStar MS
                                         where MS.name = "John Wayne" and MS.s-id = S.s-id)
```

e)

```
select directorName
from Movie
where rating > 5.0 and year = 2021
group by directorName
having count(*) >= 3
```

f)

```
with MD(title, year, country, rating) as (select title, year, country, rating
                                           from Movie join Director on Movie.directorName = Director.name
                                           and Movie.country = Director.country
                                           and Director.birthYear > 1992)
```

```
select *
```

```
from MD
```

```
where MD.rating >= all (select temp.rating
                       from MD temp
                       where temp.year = MD.year and temp.country = MD.country)
```

g) select D.name

```
from Movie M, Director D
```

```
where M.genre = "horror" and M.year = 2021 and M.directorName = D.name and D.country = "USA"
and M.rating > (select avg(rating) as rating
```

```
from Movie M2
```

```
where M2.directorName = "Alfred Hitchcock")
```

h)

```
with M2021(title, genre, country, rating) as (select title, genre, country, rating
                                             from Movie M
                                             where M.year = 2021)

select title
from M2021 M2
where M2.rating >= all (select temp.rating
                       from M2021 temp
                       where temp.genre = M2.genre and temp.country = M2.country)
```

i)

```
with T(directorName, no-movies) as (select M.directorName, count(*) as no-movies
                                     from Movie M
                                     group by M.directorName)

select T.directorName
from T
where T.no-movies = (select count(*)
                    from Movie M2
                    where M2.directorName = "Quentin Tarantino")
```

j)

```
with Comedy(dname, dcountry, movie-count) as (select M.directorName, D.country, count(*) as mov-cnt
                                                from Movie M, Director D
                                                where M.year = 2021 and M.genre = "comedy" and
                                                M.directorName = D.name
                                                group by M.directorName, D.country)

select C.dname, C.dcountry
from Comedy C
where C.mov-cnt >= all (select mov-cnt
                       from Comedy C2
                       where C2.country = C.country)
```

Q2)

a)

StudentName	ClubName
John	ABC
John	XYZ
Dave	XYZ

b)

StudentName	ClubName
John	XYZ

c)

StudentName	ClubName

d)

StudentName	ClubName
John	XYZ
Dave	XYZ