

```
CREATE DATABASE Netflix;  
USE Netflix;
```

```
CREATE TABLE Seasons(series_name CHAR(50) NOT NULL, year_of_release INT,  
number_of_seasons INT NOT NULL);  
INSERT INTO Seasons VALUES ("How I Met Your Mother", 2005, 9), ("Breaking Bad", 2008,  
5), ("The Queen's Gambit", 2020, 1),  
("Fauda", 2015, 3), ("Stranger Things", 2016, 4), ("Friends", 1994, 10), ("Money Heist", 2017,  
5),  
("13 Reasons Why", 2017, 4), ("Emily in Paris", 2020, 2), ("Who Killed Sara?", 2021, 2);
```

```
CREATE TABLE Genres(series_name CHAR(50) NOT NULL, genre CHAR(50) NOT NULL,  
language CHAR(50));  
INSERT INTO Genres VALUES ("How I Met Your Mother", "Comedy", "EN"), ("Who Killed  
Sara?", "Mystery", "ES"),  
("Stranger Things", "Sci-Fi", "EN"), ("Breaking Bad", "Crime", "EN"), ("Rick & Morty",  
"Animation", "EN"),  
("Money Heist", "Action", "ES"), ("Friends", "Comedy", "EN"), ("Fauda", "Action", "HE"),  
("Emily in Paris", "Romance", "EN"), ("13 Reasons Why", "Drama", "EN"), ("The Queen's  
Gambit", "Drama", "EN");
```

```
CREATE TABLE Actors(series_name CHAR(50) NOT NULL, last_name CHAR(50) NOT  
NULL, age INT);  
INSERT INTO Actors VALUES ("How I Met Your Mother", "Segal", 40), ("How I Met Your  
Mother", "Hannigan", 46),  
("How I Met Your Mother", "Patrick-Harris", 47), ("Friends", "Aniston", 51), ("Friends", "Perry",  
51),  
("Stranger Things", "Ryder", 49), ("Breaking Bad", "Cranston", 64), ("Money Heist",  
"Corbero", 31),  
("Money Heist", "Morte", 45), ("Money Heist", "Ituno", 45), ("The Queen's Gambit",  
"Taylor-Joy", 25),  
("Fauda", "Raz", 49), ("Fauda", "Garty", 40), ("13 Reasons Why", "Langford", 24), ("13  
Reasons Why", "Minnette", 24);
```

```
CREATE TABLE Years(last_name CHAR(50) NOT NULL, year_start INT, year_end INT,  
num_of_episodes INT);  
INSERT INTO Years VALUES ("Segal", 2005, 2014, 208), ("Langford", 2017, 2020, 26),  
("Aniston", 1994, 2004, 235), ("Corbero", 2017, 2021, 32), ("Taylor-Joy", 2020, 2020, 7);
```

1.ב.

הסכמה של היחס Years:

column name	data type
last_name	CHAR(50)
year_start	INT
year_end	INT
num_of_episodes	INT

1.ג.

language = {EN, ES, HE}

.1.т.1

```
SELECT Seasons.series_name
FROM Seasons, Genres
WHERE year_of_release BETWEEN 2017 AND 2021 AND language = "EN";
```

.2.т.1

```
SELECT last_name FROM Actors WHERE age < 30 AND last_name LIKE "_____%";
```

.3.т.1

```
SELECT AVG(age) FROM Actors WHERE last_name LIKE "_____";
```

.4.т.1

```
SELECT series_name, year_of_release
FROM Seasons
WHERE number_of_seasons=(SELECT MAX(number_of_seasons) FROM Seasons);
```

.5.т.1

```
SELECT genre, COUNT(*) AS CNT
FROM Genres
GROUP BY genre
ORDER BY CNT DESC;
```

.6.т.1

```
SELECT last_name
FROM Actors
WHERE series_name = (SELECT series_name FROM Actors WHERE last_name =
"Corbero") AND last_name<>"Corbero";
```

.7.т.1

```
SELECT language
FROM Genres
GROUP BY language
HAVING COUNT(*)=(
SELECT MAX(CNT)
FROM (
SELECT language, COUNT(*) AS CNT
FROM Genres
GROUP BY language) AS LanCounts);
```

.8.ד.1

```
SELECT SName, COUNT(*)
FROM
(SELECT DISTINCT b1.series_name AS SName, b1.last_name AS LName
FROM Actors AS b1, Actors AS b2
WHERE b1.age=b2.age AND b1.series_name=b2.series_name AND
b1.last_name<>b2.last_name) AS CTable
GROUP BY SName;
```

.9.ד.1

```
SELECT series_name, genre FROM Genres WHERE series_name NOT IN (SELECT
series_name FROM Seasons)
```

.ה.1

בשביל פאי נכתוב P, בשביל סיגמא נכתוב S, בשביל רו נכתוב R.

.1.ה.1

```
P_Season.series_name(S_2017<=year_of_release<=2021(S_language="EN"(Seasons X Genres)))
```

.6.ה.1

```
S_last_name!="Corbero"(P_last_name(S_Actors.series_name=new_series_name(R_new_series_name(P_series_name(S_last_name="Corbero"(Act
ors))) X Actors)))
```

.9.ה.1

```
P_Genres.series_name,genre(S_Genres.series_name=diff_series_name(R_diff_series_name(P_series_name(Genres)-P_series_name(Seaso
ns)) X Genres)))
```

2.א. נכון
2.ב. לא נכון
2.ג. לא נכון
2.ד. נכון

