MySQL

ASSIGNMENT 1ST

Problem statement: The task involves analyzing the Netflix Originals dataset to derive insights about movie genres, runtime, IMDb scores, and premiere dates. The dataset holds valuable information regarding the content Netflix produces, and understanding these attributes can help identify trends and patterns. By using SQL queries, the aim is to perform complex filtering, aggregation, and sorting operations, providing meaningful insights for business decisions.

Task 1st: To retrieve all Netflix Originals with an IMDb score greater than 7, runtime greater than 100 minutes, and the language being either English or Spanish, I have used the following SQL query:

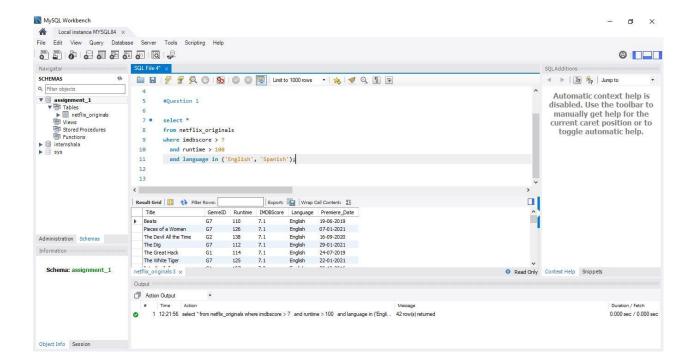
select *

from netflix_originals

where imdbscore > 7

and runtime > 100

and language in ('English', 'Spanish');



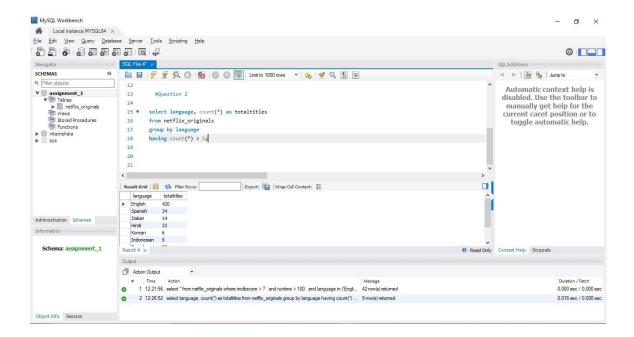
Task 2nd: Finding the total number of Netflix Originals in each language, but only show those languages that have more than 5 titles.

select language, count(*) as totaltitles

from netflix_originals

group by language

having count(*) > 5;



Task 3rd: To get the top 3 longest-running movies in Hindi language sorted by IMDb score in descending order

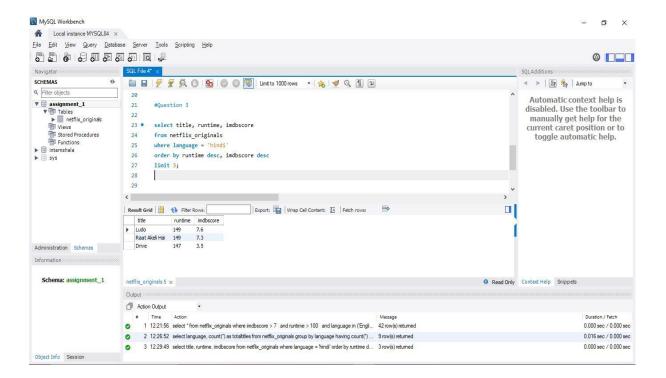
select title, runtime, imdbscore

from netflix_originals

where language = 'hindi'

order by runtime desc, imdbscore desc

limit 3;



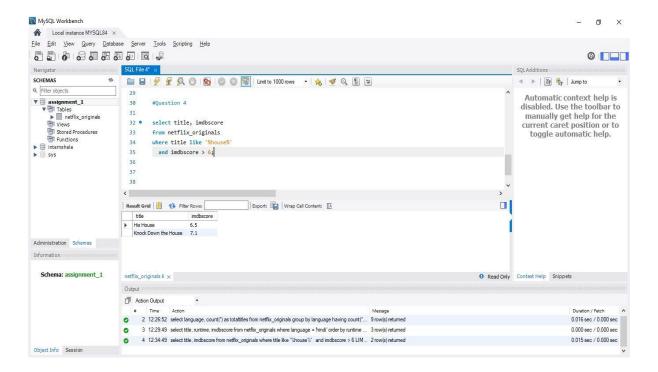
Task 4^{th} : To retrieve all titles that contain the word "House" in their name and have an IMDb score greater than 6.

select title, imdbscore

from netflix_originals

where title like '%house%'

and imdbscore > 6;



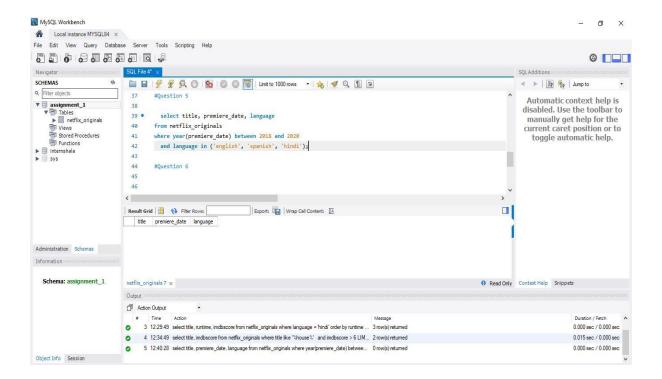
Task 5th: Finding all Netflix Originals released between the years 2018 and 2020 that are in either English, Spanish, or Hindi.

select title, premiere_date, language

from netflix_originals

where year(premiere_date) between 2018 and 2020

and language in ('english', 'spanish', 'hindi');



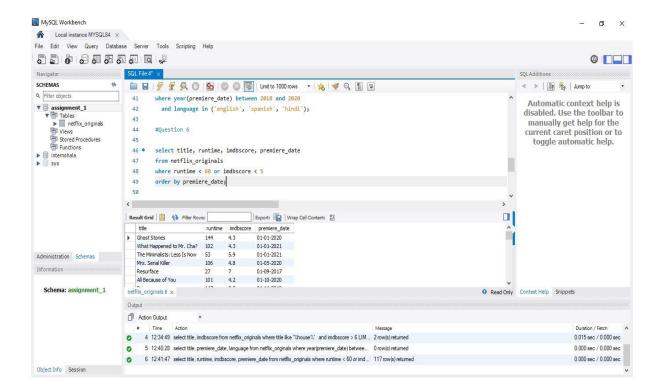
Task 6th: Finding all movies that either have a runtime less than 60 minutes or an IMDb score less than 5, sorted by Premiere Date.

select title, runtime, imdbscore, premiere_date

from netflix_originals

where runtime < 60 or imdbscore < 5

order by premiere_date;



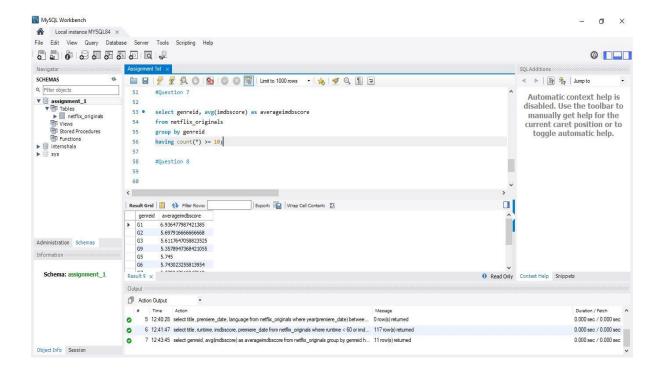
Task 7th: To get the average IMDb score for each genre where the genre has at least 10 movies.

select genreid, avg(imdbscore) as averageimdbscore

from netflix_originals

group by genreid

having count(*) >= 10;

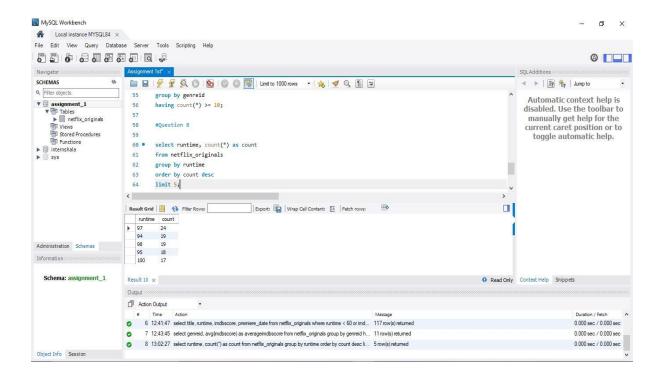


Task 8th: To retrieve the top 5 most common runtimes for Netflix Originals.

select runtime, count(*) as count
from netflix_originals
group by runtime

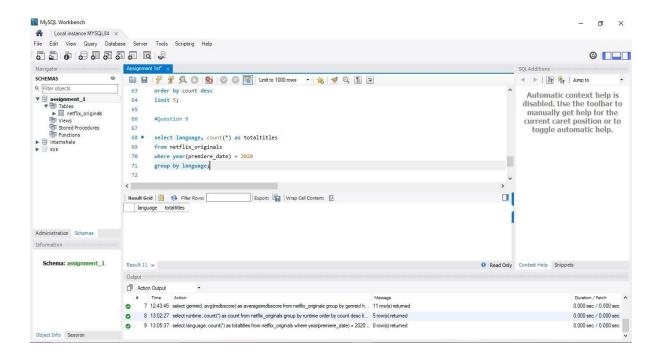
order by count desc

limit 5;



Task 9th: To listing all Netflix Originals that were released in 2020, grouped by language, and show the total count of titles for each language.

select language, count(*) as totaltitles from netflix_originals where year(premiere_date) = 2020 group by language;



Task 10th: To creating a new table that enforces a constraint on the IMDb score to be between 0 and 10 and the runtime to be greater than 30 minutes.

```
create table netflix_originals_with_constraints (
    title varchar(255),
    genreid int,
    runtime int check (runtime > 30),
    imdbscore decimal(3,2) check (imdbscore between 0 and 10),
    language varchar(50),
    premiere_date date
);
```

