**Relational Database Management System (1PGDMDSA04)**

**PGDM-trimester-1**

**RDBMS Final Trimester Project**

**(20 Marks)**

Project on

**Movie Recommendation using MySQL Relational Database**

**Implemented as a Part of the Subject:** Relational Database Management System

**Subject Code:** 1PGDMDSA04

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**Roll Number:** PGDMDSA23-004

**Branch and Section Details:** Post Graduate Diploma in Management (Data Science & Analytics), 2023-25, Narayana Business School

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**Designation:** Professor of Practice

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**Institute Name:** Narayana Business School



**Problem Statements for the Analysis:**

**NOTE: You should be writing SQL Scripts to achieve the solution to the below Problem Statements**

Statement

1. **Top ten most viewed movies with their movies Name (Ascending or Descending order)**

Code

with Most\_Views\_movies AS (

select m.MovieID, m.Title, COUNT(r.rating) as view\_point

from movies as m

left join ratings as r on m.MovieID = r.MovieID

group by m.MovieID, m.Title)

select Title, view\_point

from Most\_Views\_movies

order by view\_point

desc limit 10;

Output



Statement

**2. Top twenty rated movies (Condition: The movie should be rated/viewed by at least 40 users)**

Code

with movie\_top20\_rating as (

Select m.movieid, count(r.userid) as no\_of\_users\_rated, avg(r.rating) as avg\_rating

from movies m join ratings r on m.movieid = r.movieid group by m.movieid having

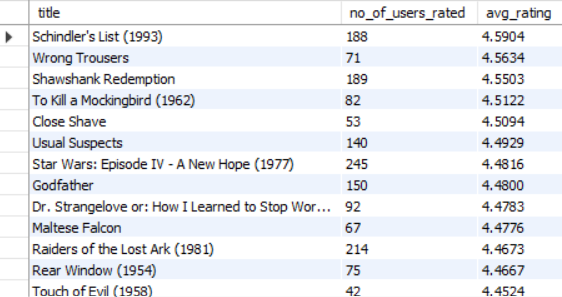
no\_of\_users\_rated > 40

)

select m.title, mc.no\_of\_users\_rated, mc.avg\_rating

from movie\_top20\_rating mc join movies m on m.movieid = mc.movieid order by mc.avg\_rating desc limit 20;

Output



Statement

**3. We wish to know how have the genres ranked by Average Rating, for each profession and age**

**group. The age groups to be considered are: 18-35, 36-50 and 50+. You need to formulate results in following table:**

Code

with genre\_Avg\_rating as

(select m.genre,avg(r.rating) as Ratings,r.userid

from movies m

join ratings r

on m.movieid = r.movieid

group by m.genre,r.userid)

select u.age as '18-35',u.age as '36-50',u.age as '50 +',u.occupation,ge.genre,ge.ratings

from

users as u

join

genre\_Avg\_rating as ge

on u.userid = ge.userid

where '18-35' between 18 and 35 or

'36-50' between 36 and 50 or

'50+' between 51 and 150

order by age;

Output

