CREATE DATABASE PROJECT;

USE PROJECT;

CREATE TABLE USERS (

USER\_ID INT PRIMARY KEY,

USER\_NAME VARCHAR(50),

AGE INT NOT NULL,

PREFERRED\_GENRE VARCHAR(50)

);

INSERT INTO USERS

(USER\_ID,USER\_NAME,AGE,PREFERRED\_GENRE)

VALUES

(1,"OM",20,"COMEDY"),

(2,"SAI",19,"ACTION"),

(3,"RAM",20,"THRILLER"),

(4,"NIL",25,"DRAMA");

CREATE TABLE MOVIES(

MOVIE\_ID INT PRIMARY KEY,

TITLE VARCHAR(50),

RELEASE\_YEAR INT NOT NULL

);

INSERT INTO MOVIES

(MOVIE\_ID,TITLE,RELEASE\_YEAR)

VALUES

(1,"SITARAMAN", 2023),

(2,"PREMALU", 2024),

(3,"URI", 2021),

(4,"PANCHAYAT", 2025);

CREATE TABLE GENRE(

GENRE\_ID INT PRIMARY KEY,

GENRE\_NAME VARCHAR(50)

);

INSERT INTO GENRE

(GENRE\_ID,GENRE\_NAME)

VALUES

(1,"LOVE"),

(2,"COMEDY"),

(3,"ACTION"),

(4,"DRAMA");

CREATE TABLE RATINGS(

RATING\_ID INT PRIMARY KEY,

RATING FLOAT CHECK (RATING BETWEEN 1 AND 5),

USER\_ID INT,

MOVIE\_ID INT,

RATING\_DATE DATE,

FOREIGN KEY (USER\_ID) REFERENCES USERS (USER\_ID),

FOREIGN KEY (MOVIE\_ID) REFERENCES MOVIES (MOVIE\_ID)

);

INSERT INTO RATINGS

(RATING\_ID,USER\_ID,MOVIE\_ID,RATING,RATING\_DATE)

VALUES

(1,1,1,4.5,'2023-2-2'),

(2,2,2,5,'2024-12-2'),

(3,3,3,4.7,'2022-2-4'),

(4,4,4,4,'2023-5-2');

SELECT MOVIES.TITLE ,AVG(RATINGS.RATING) AS AVG\_RATINGS

FROM RATINGS

JOIN MOVIES ON RATINGS.MOVIE\_ID=MOVIES.MOVIE\_ID

GROUP BY MOVIES.TITLE

ORDER BY AVG\_RATINGS DESC;

CREATE TABLE MOVIE\_GENRE(

MOVIE\_ID INT,

GENRE\_ID INT,

FOREIGN KEY (MOVIE\_ID) REFERENCES MOVIES(MOVIE\_ID),

FOREIGN KEY (GENRE\_ID) REFERENCES GENRE(GENRE\_ID)

);

INSERT INTO MOVIE\_GENRE

(MOVIE\_ID, GENRE\_ID)

VALUES

(1,1),

(2,2),

(3,3),

(4,4);

SELECT MOVIES.TITLE,GENRE.GENRE\_NAME

FROM MOVIES

JOIN MOVIE\_GENRE ON MOVIE\_GENRE.MOVIE\_ID=MOVIES.MOVIE\_ID

JOIN GENRE ON GENRE.GENRE\_ID = MOVIE\_GENRE.GENRE\_ID;

SELECT MOVIES.TITLE

FROM MOVIES

WHERE RELEASE\_YEAR>=2024;

SELECT USER\_ID

FROM RATINGS

JOIN MOVIES ON RATINGS.MOVIE\_ID=MOVIES.MOVIE\_ID;