**SQL ASSIGNMENT ON MOVIE DATABASE**

1. Write a SQL query to find the actors who were cast in the movie 'Annie Hall'. Return actor first name, last name and role.

A. SELECT A.ACT\_FNAME, A.ACT\_LNAME, MC.ROLE

FROM ACTORS AS A

JOIN MOVIE\_CAST AS MC

ON A.ACT\_ID = MC.ACT\_ID

JOIN MOVIE AS M

ON MC.MOV\_ID = M.MOV\_ID

WHERE M.MOV\_TITLE = 'ANNIE HALL'

2. From the following tables, write a SQL query to find the director who directed a movie that casted a role for 'Eyes Wide Shut'. Return director first name, last name and movie title.

A. SELECT D.DIR\_FNAME, D.DIR\_LNAME, M.MOV\_TITLE

FROM DIRECTOR AS D

JOIN MOVIE\_DIRECTION AS MD

ON D.DIR\_ID = MD.DIR\_ID

JOIN MOVIE AS M

ON MD.MOV\_ID = M.MOV\_ID

WHERE M.MOV\_TITLE = 'EYES WIDE SHUT'

3. Write a SQL query to find who directed a movie that casted a role as ‘Sean Maguire’. Return director first name, last name and movie title.

A. SELECT D.DIR\_FNAME, D.DIR\_LNAME, M.MOV\_TITLE

FROM DIRECTOR AS D

JOIN MOVIE\_DIRECTION AS MD

ON D.DIR\_ID = MD.DIR\_ID

JOIN MOVIE AS M

ON MD.MOV\_ID = M.MOV\_ID

JOIN MOVIE\_CAST AS MC

ON M.MOV\_ID = MC.MOV\_ID

WHERE ROLE = 'SEAN MAGUIRE’

4. Write a SQL query to find the actors who have not acted in any movie between1990 and 2000 (Begin and end values are included.). Return actor first name, last name, movie title and release year.

A. SELECT A.ACT\_FNAME, A.ACT\_LNAME, M.MOV\_TITLE, M.MOV\_YEAR

FROM ACTORS AS A

JOIN MOVIE\_CAST AS MC

ON A.ACT\_ID = MC.ACT\_ID

JOIN MOVIE AS M

ON MC.MOV\_ID = M.MOV\_ID

WHERE M.MOV\_YEAR NOT BETWEEN 1990 AND 2000

5. Write a SQL query to find the directors with number of genres movies. Group the result set on director first name, last name and generic title. Sort the result-set in ascending order by director first name and last name. Return director first name, last name and number of genres movies.

A. SELECT D.DIR\_FNAME, D.DIR\_LNAME, G.GEN\_TITLE, COUNT(G.GEN\_TITLE)

FROM DIRECTOR AS D

JOIN MOVIE\_DIRECTION AS MD

ON D.DIR\_ID = MD.DIR\_ID

JOIN MOVIE\_GENRES AS MG

ON MD.MOV\_ID = MG.MOV\_ID

JOIN GENRES AS G

ON MG.GEN\_ID = G.GEN\_ID

GROUP BY D.DIR\_FNAME, D.DIR\_LNAME, G.GEN\_TITLE

ORDER BY D.DIR\_FNAME ASC, D.DIR\_LNAME ASC

6.  Write a SQL query to find the movies with year and genres. Return movie title, movie year and generic title.

A. SELECT M.MOV\_TITLE, M.MOV\_YEAR, G.GEN\_TITLE

FROM MOVIE AS M

JOIN MOVIE\_GENRES AS MG

ON M.MOV\_ID = MG.MOV\_ID

JOIN GENRES AS G

ON MG.GEN\_ID = G.GEN\_ID

7. Write a SQL query to find all the movies with year, genres, and name of the director.

A. SELECT M.MOV\_TITLE, M.MOV\_YEAR, G.GEN\_TITLE, CONCAT(D.DIR\_FNAME, ' ' , D.DIR\_LNAME) AS DIRECTOR

FROM MOVIE AS M

JOIN MOVIE\_GENRES AS MG

ON M.MOV\_ID = MG.MOV\_ID

JOIN GENRES AS G

ON MG.GEN\_ID = G.GEN\_ID

JOIN MOVIE\_DIRECTION AS MD

ON M.MOV\_ID = MD.MOV\_ID

JOIN DIRECTOR AS D

ON MD.DIR\_ID = D.DIR\_ID

8. Write a SQL query to find the movies released before 1st January 1989. Sort the result-set in descending order by date of release. Return movie title, release year, date of release, duration, and first and last name of the director.

A. SELECT M.MOV\_TITLE, M.MOV\_YEAR, M.MOV\_DT\_REL, M.MOV\_TIME, D.DIR\_FNAME, D.DIR\_LNAME

FROM MOVIE AS M

JOIN MOVIE\_DIRECTION AS MD

ON M.MOV\_ID = MD.MOV\_ID

JOIN DIRECTOR AS D

ON MD.DIR\_ID = D.DIR\_ID

WHERE M.MOV\_DT\_REL < '1989.01.01'

ORDER BY M.MOV\_DT\_REL DESC

9. Write a SQL query to compute the average time and count number of movies for each genre. Return genre title, average time and number of movies for each genre.

A. SELECT G.GEN\_TITLE, AVG (M.MOV\_TIME), COUNT(M.MOV\_ID)

FROM MOVIE AS M

JOIN MOVIE\_GENRES AS MG

ON M.MOV\_ID = MG.MOV\_ID

JOIN GENRES AS G

ON MG.GEN\_ID = G.GEN\_ID

GROUP BY G.GEN\_TITLE

10. Write a SQL query to find movies with the lowest duration. Return movie title, movie year, director first name, last name, actor first name, last name and role.

A. SELECT M.MOV\_TITLE, M.MOV\_YEAR, D.DIR\_FNAME, D.DIR\_LNAME, A.ACT\_FNAME, A.ACT\_LNAME, MC.ROLE

FROM MOVIE AS M

JOIN MOVIE\_DIRECTION AS MD

ON M.MOV\_ID = MD.MOV\_ID

JOIN DIRECTOR AS D

ON MD.DIR\_ID = D.DIR\_ID

JOIN MOVIE\_CAST AS MC

ON M.MOV\_ID = MC.MOV\_ID

JOIN ACTORS AS A

ON MC.ACT\_ID = A.ACT\_ID

ORDER BY M.MOV\_TIME ASC

LIMIT 1