



University of Central Punjab

Faculty of Information Technology

Total Marks: 100

Due Date: 4 May 2020

Instructions:

1. Word file of assignment should be submitted on Microsoft Teams.
2. No Late submission allowed.

Q1) Import or execute database schema using cinepax.sql. Execute the following queries on database that you created and give the screenshots of query and the result.

Note: Use JOIN keyword wherever applicable. Do not Use cross product or Multi Table Select. It will not earn you any marks in that particular query.

1. Show all the movie names with their type names for those movies which was released during 2000 to 2009. (Use inner join)
2. Show the Name of Staff members and their designation who did some booking for the movie 'Avengers'. (Use inner join)
3. Show the name of movies which were released in both 2D and 3D. (Use Natural join)
4. Show all category names along with the movie names that lie in the category. Show all categories whether any movie is there of that category or not. (Use Outer Join)
5. Show movie names along with the total number seats that were booked for it. (Use Aggregate Function)
6. Show category names along with the number of movies present in that category. (Use Aggregate Function)
7. Show movie names which has a play time of more than 2 hours or they are in 3D.(Use set operations)
8. Show category id which has no movies.
9. Show movies having same release dates.
10. Show movie names which have got the maximum bookings.
11. Show a ranking list of top five movies based on their bookings.
12. Show a ranking list of bottom five movies based on their bookings.
13. From the given database state, write sql queries of your own choice to observe behavior of following functions. Write separate query for each of the following.
 - a. Strcmp
 - b. Replace
 - c. Length
 - d. Concat
 - e. Datediff
 - f. Sysdate

- g. Curdate
- h. Date
- i. Year
- j. Month
- k. Abs
- l. Ceiling
- m. Floor
- n. Round

Question 2: For each of the following, write the SQL queries that satisfy the requirements. Use the COMPANY Schema for the following questions

- 1) Find the details of the Employees who either work for department # 4 and earn more than 25K or work for department # 5 and earn more than 30K.
- 2) Find the SSN of the employees who either work for department # 5 or supervise someone who works for department # 5.
- 3) Find the SSN of the employees who do not work for department # 5 but supervise someone who works for department # 5.
- 4) List the names of the projects along with the names of the departments under which they are run.
- 5) List the name of the employees who are working on any project not being run by their department.
- 6) List the average salary of the female employees.
- 7) List the names sex, and salary of the employees who earn more than the average salary of the female employees.
- 8) For each department list the department name and the average salary of the employees working in that department.
- 9) List the names of the employees who do not have any dependent.
- 10) List the names and salaries of the employees along with the total number of hours they have spent on all project.
- 11) List the names and salaries of the employees along with the total number of hours spent on projects if they have spent less than 20 hours total.
- 12) List the name of the employees who manage a department which has an office in Houston.

=====BEST OF LUCK=====