

FACULTY OF COMPUTING & INFORMATION TECHNOLOGY

UNIVERSITY OF THE PUNJAB



Database Systems: Assignment - 05

BS-DS(Morning/Afternoon) Fall 22

Due Date: 15-04-2024

Instructions

- Work on this Assignment individually.
- In case of any ambiguity, benefit will be given to the students.
- First read the query statement carefully before solving it.
- Plagiarism will not be tolerated and it will result in **ZERO**.
- You are supposed to do it on blank papers/ any register paper / any Sheets.
- Solve all the Queries.
- Assignment should be **HANDWRITTEN**.

You have to write all these Queries

Total marks: 100

Assignment from Ch 1 , 2 , 3 , 4 , 5 , 6

==> *For Question 1 to 24 & 26 to 30 use these tables:*

Table==> **EMP** (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

Table==> **DEPT** (DEPTNO, DEPTNAME, LOC)

Table==> **SALGRADE** (GRADE, HISAL, LOSAL)

1. List the names and salaries of employees who earn more than the average salary.
2. Show the department names along with the total number of employees in each department.
3. Display the names and salaries of employees who earn the highest salary in their department.
4. List the department names along with the average salary of employees in each department.
5. Show the names of employees who earn the same salary as their manager.
6. Display the department names along with the maximum salary in each department.
7. List the names and hire dates of employees who were hired after the average hire date.
8. Show the department names along with the total salary expense of each department.
9. Display the names and salaries of employees who earn less than the lowest salary in their department.
10. List the department names along with the minimum salary in each department.
11. Show the names and salaries of employees who earn more than the average salary of their department.
12. Display the department names along with the number of employees earning a commission.
13. List the names and salaries of employees who earn the same salary as the average salary of their department.
14. Show the department names along with the average commission rate in each department.
15. Display the names and salaries of employees who earn less than the average salary of their department but more than the average salary of all departments.
16. List the department names along with the total number of managers in each department.
17. Show the names and salaries of employees who earn less than the highest salary in their department.
18. Display the department names along with the total number of employees hired in the year 2024.
19. List the names and salaries of employees who earn less than the average salary but have a commission rate greater than 0.
20. Show the department names along with the total number of employees hired in each year.
21. Display the names and salaries of employees who earn more than the highest salary in their department but less than the average salary of all departments.

22. List the department names along with the total number of employees whose salaries are within the range of 2000 and 3000.
23. Show the names and salaries of employees who earn less than the average salary of their department and have 'MANAGER' in their job title.
24. Display the department names along with the total number of employees who were hired in each month.
25. List the names and salaries of employees who earn more than the average salary but have a commission rate less than the average commission rate of all employees.
26. Show the department names along with the total number of employees who have 'CLERK' in their job title.
27. Display the names and salaries of employees who earn less than the highest salary in their department but have a commission rate greater than the average commission rate of all employees.
28. List the department names along with the total number of employees who have a commission.
29. Show the names and salaries of employees who earn more than the highest salary in their department and have a commission rate greater than 0.
30. Display the department names along with the total number of employees who earn more than the average salary of all employees.
31. List the names and salaries of employees who earn less than the average salary but were hired before the average hire date.
32. Show the department names along with the total number of employees who earn more than the average salary of all departments.
33. Display the names and salaries of employees who earn less than the highest salary in their department but have a commission rate greater than the average commission rate of their department.
34. List the department names along with the total number of employees who earn less than the average salary but have a commission rate greater than the average commission rate of their department.
35. Show the names and salaries of employees who earn more than the average salary of their department but less than the average salary of all employees.

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