# Database Management Systems Lab

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Instructions

Work on this lab individually.

Submit the solution at bsef20a537@pucit.edu.pk

You're supposed to:

## Part-I

**EMPLOYEE (EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, HIRE_DATE, JOB_ID, SAL, COMM, MGR, DEPTNO)**

**DEPARTMENT (DeptNO, DeptName, LOC)**

**SALGRADE (GRADE, LOSAL, HISAL)**

1. Display the employee last name, job ID, and start date of employees hired between February 20, 1998, and May 1, 1998. Order the query in ascending order by start date.
2. Display the name and job title of all employees who do not have a manager.
3. Create a query to display the name and hire date of any employee hired after employee Davies.
4. Give employee number, name, hire date, commission, department id, department name, location, salary grade of all employees those names are Hassan, salary is less than 50000, commission is 2% of the half of their salary.
5. Write a query to display the number of people with the same job.
6. Write a query to display the total salary for each department, including any commissions.
7. Select the top 10 highest paid employees, including their department name and location.
8. Write a query to display the total number of employees in each department.
9. Write a query to display those employees who have worked for 10 years.
10. Display all departments and their average employee salary.

## Part-II

**Worker (Worker_ID, First_Name, Last_Name, Salary, Joining_Date, Department)**

**Bonus (Worker_ID, Bonus_Date, Bonus_Amount)**

**Title (Worker_ID, Worker_Title, Affected_From)**

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1. Write a query to print the FIRST_NAME from the Worker table after removing white spaces from the right side.
2. Write a query to show only even rows from a worker table.
3. Display the first name, last name and salary of all workers who earn more than $50,000
4. Display the first name, last name and department of all workers who work in the same department as worker with ID 123
5. Display the first name, last name and bonus amount of all workers who received a bonus on or after '2022-01-01' and who work in the department 'Marketing'

# Part-III

## Employee (employee-name, street, city)

## Works (employee-name, company-name, salary)

## Company (company-name, city)

## Manages (employee-name, manager-name)

1. Find the names of all employees who earn more than the average salary of all employees of their company.
2. Write a query to retrieve the names of all employees who have a salary greater than or equal to the salary of their manager.
3. Write a query to retrieve the names of all employees who work for companies located in "New York".
4. Write a query to retrieve the names of all employees who work for companies located in the same city as their manager.
5. Find the names of all employees in the database who live in the same cities and on the same streets as do their managers.