

# Faculty of Computing & Information Technology

University of the Punjab



## Database Systems

### Lab #4 (Version 1)

**Class: BS-DS F22 (Morning)**

**Date: March 6, 2024**

#### Instructions:

- Work individually.
- You are not allowed to use mobile phone.
- Do not talk to your peer students.
- In case of any ambiguity, benefit will be given to students.
- In case of cheating, you will be given ZERO marks.
- You are not allowed to use ChatGPT, Gemini AI, or any other AI tool.

IN CASE YOU HAVE NO IDEA ABOUT THE NAME OF ATTRIBUTES, RUN THE FOLLOWING COMMAND:

**DESC** table\_name

## TASKS TO DO:

Total marks: 100

**Question 1:** Write a SQL Statement on **EMP** Table, which shows ename, hiredate, sal where ename is neither Miller nor Allen having department 10 or 20 with hiredate not of 1990 having sal between 5000 and 9000. (10)

**Question 2:** List all the employees whose name is having at least FIVE characters and joined in the year 80 or 81 and having a reporting manager with salary in the range 800 to 2000 in dept 30 or 40. (10)

**Question 3:** Give names of employees as "Employee Name" and 20% increased salary as "Incremented Salary" of all employees in descending order and their increased salary is not in the range 1200 – 2000. (10)

**Question 4:** Give first 3 letters of employee name as "First 3 letters", last 3 letters of employee name as "Last 3 letters", jobs as "Employee Job" and 15% increase of those employees who have department number 10 or 30 and the only the first letter of name must be Capital. (15)

**Question 5:** Create a query that displays the name of the employee and the concatenate the number of asterisks according to the name of the employee's length. E.g., SMITH \*\*\*. Display the employee's name and indicate the amount of their annual salaries in term of asterisk "\*". Each asterisk signifies a thousand dollars. Label the column "Employee and Their Salary". (15)

**Question 6:** Write a SQL Statement on EMP Table, which shows employee name, employee number and manager name and manager number. Manager Name is the manager of the employee and manager name should not be 'Blake' and 'Ford'. (15)

**Question 7:** Write a SQL statement on EMP table, which shows ename, sal and hiredate of those employees that are hired after 'James' and who have salary greater than the employee having employee number 7876. (15)

**Question 8:** Write a SQL statement on EMP table, which finds the names of employees whose names contain atleast two instances of the letter 'L' who are in department 30, or who report t manager with employee ID 7782. (10)