** COMSATS UNIVERSITY, ISLAMABAD**

**Department of Computer Science**

**Lab Assignment - 3, Fall - 2022**

Course: Database Systems - I (CSC371) Class: BSCS- IV A&B

Instructor: Dr. Basit Raza Total Marks: 10

Instructions:

* Create a very well formatted Microsoft word document
* Document should contain a title page (full name, registration no)

**CLO-5** (**Apply data processing operations on both relational and non-relational DBMS.)**

**Q1: Write SQL statements for the following information needs using Subqueries to Solve Queries**

* + 1. The HR department needs a query that prompts the user for an employee last name. The query then displays the last name and hire date of any employee in the same department as the employee whose name they supply (excluding that employee). For example, if the user enters Zlotkey, find all employees who work with Zlotkey (excluding Zlotkey).
    2. Create a report that displays the employee number, last name, and salary of all employees who earn more than the average salary. Sort the results in order of ascending salary.
    3. Create a report for HR that displays the department number, last name, and job ID for every employee in the Executive department.
    4. Create a report for HR that displays the last name and salary of every employee who reports to King.

**Q2: Write SQL statements for the following information needs using the Set Operators**

1. The HR department needs a list of countries that have no departments located in them. Display the country ID and the name of the countries. Use the set operators to create this report.
2. The HR department needs a list of department IDs for departments that do not contain the job ID ST\_CLERK. Use the set operators to create this report.
3. Produce a list of jobs for departments 10, 50, and 20, in that order. Display the job ID and department ID by using the set operators.

**Q3: Write SQL statements for the following information needs manipulating Data using DML**

**Statements**

1. Increase the commission percentage for every employee in department 80 by 5%.
2. Please submit the file containing SQL statement for each of the above needs, number of rows returned in the result (if applicable), and the screenshots of the results showing first few rows along with the header.

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