

FACULTY OF COMPUTING & INFORMATION TECHNOLOGY

UNIVERSITY OF THE PUNJAB



Database Systems: Assignment - 03

BSIT FALL 2023

Due Date: 22-10-2024

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: 50

Assignment from Ch 1 , 2 , 3 ,4

For Example:

Query: Find All Rows from a Table name customers.

SQL : **SELECT** * **FROM** customers;

Query: Find All Rows from a Table named customer with city New York.

SQL : **SELECT** * **FROM** customers

WHERE city = 'New York';

EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

DEPT (DEPTNO, DNAME, LOC)

SALGRADE (GRADE, LOSAL, HISAL)

Green are Table names and *Oranges* are Table attributes. (These table may not be in

database).

Question 01: List each employee with their manager's name.

Question 02: Write a query to display the current date. Label the column Date.

Question 03: List employees name and their department name whose commission is more than 10% of their salary.

Question 04: List the employee name, job title, department name, and salary in ascending order of department name. Show employees without a department.

Question 05: Display names and job titles for employees who joined in february.

Question 06: Display the employee name, job title, department name, and hire date for all employees. Show results sorted by department name, then by hire date

Question 07: Display the last name and hire date of every employee who was hired in 1994.

Question 08: For each employee, display the employee number, ename, salary, and salary increased by 15% as New Salary

Question 09: Show employee names, department name, and their total years of experience for all employees hired before 2015.

Question 10: Display the last names of all employees where the third letter of the name is an a.

Question 11: Display the last name of all employees who have an a and an e in their last name.

Question 12: Retrieve the employee name, location, and job title of employees who work in either New York or Dallas and were hired before January 1, 2014

Question 13: Display the ename and department number of all employees in departments 20 and 30 in alphabetical order by ename, and length of name greater than 4.

Question 14: List employees whose salaries are between 1200 and 3000 and their names start with "S".

Question 15: Retrieve employee names, hire dates, and job titles for those hired between January 1, 1981, and December 31, 1982.

Question 16: Write a query that displays the employee's names with the first letter capitalized and all other letters lowercase and the length of the name for all employees

whose name starts with M, T, or K. Sort the results by the employees' names.

Question 17: Show the employee names and job titles for employees whose names start with 'S', 'J', or 'B', and who work in departments with department numbers between 10 and 30.

Question 18: Show all employee names, starting with 'A' and second last letter 'M'.

Question 19: Display the employee names, salaries, and hire dates for employees hired in June, July, or August.

Question 20: Show employee names and locations for those whose job title is 'MANAGER' or 'SALESMAN' and whose department is located in 'NEW YORK' or 'DALLAS'.

Question 21: Create a query that displays the employees' last names and commission amounts. If an employee does not earn commission, put "No Commission." Label the column COMM.

Question 22: Show employee names, job titles, and hire dates for those whose names contain 'A' and 'N', and who were hired between 1981 and 1982.

Question 23: Retrieve the names, job titles, and department locations for employees whose hire dates are in either June or September, and whose job title includes 'AN'.

Question 24: Display the names and salaries of employees whose salary is between 1500 and 3000 or is above 5000.

Question 25 : Retrieve the employee name, department location, and job title for employees whose names start with 'A' or 'S', and who either have a salary below 1500 or were hired in 1981 or 1982.

BEST OF LUCK
