ExpNo:8

NESTED QUERIES , JOIN QUERIES AND SET OPERATORS

AIM: To perform nested Queries , joining Queries and set operations using DML command

QUERIES

1. Display all employee names and salary whose salary is greater than minimum salary of the company

2. Issue a query to display information about employees who earn more than any employee in dept no 5

3. Display the details of those who draw the salary greater than the average salary.

4. Write SQL Query which retrieves the name and address of every employee who works for the Research Department

5. Retrieve the name of each employee who has a dependent with the same first name and is the same sex as the employee.

6. Make a list of all project numbers for projects that involve an employee whose last name is 'Smith', either as a worker or as a manager of the department that controls the project.

7. Write a query to display the name for all employees who work in a department with any employee whose Fname contains the letter 'h'

> *Select Fname from EMPLOYEE where Dno IN (Select Dno from EMPLOYEE where Fname LIKE '%h%');*

8 Retrieve all employees whose address Starts with Houston.

> *select Fname, Lname, Address*
> *from EMPLOYEE*
> *where Address LIKE 'Houston%';*

9. Retrieve all employees whose address is Ends with Houston..

> *select Fname, Lname, Address*
> *from EMPLOYEE*
> *where Address LIKE '%Houston';*

10. Find all employees who were born during the 1960s.

> *select Fname, Lname*
> *from EMPLOYEE*
> *where Bdate LIKE '__6_____';*

11. Retrieve all employees in department 5 whose salary is between $30,000 and $40,000.

 # This is the use of in between
> *SELECT * FROM EMPLOYEE*
> *WHERE (Salary BETWEEN 30000 AND 40000) AND Dno = 5;*

 # this is euquqlent to <= and > =
> *SELECT * FROM EMPLOYEE*
> *WHERE (Salary >= 30000 AND Salary <= 40000) AND Dno = 5;*

12. Write a SQL query to find those employees who work in the same department where 'Ramesh' works.

 # Exclude all those records where first name is 'Ramesh'. Return first name, last name.

13 Display all the dept numbers available in Emp and not in dept tables

Minus is no more supported in mysql
> *select Dno*
> *from EMPLOYEE left join DEPARTMENT on Dno = Dnumber*
> *where Dnumber is NULL;*

14. Display all the dept numbers available in dept and not in Emp tables

15. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birth date.

16. For each employee, retrieve the employee's first and last name and the first and last name of his or her immediate supervisor.
> **# only employees who have a supervisor are included in the result**
> **# this is SELF JOIN**

17. For each employee, retrieve the employee's first and last name and the first and last name of his or her immediate supervisor, including those who have no immediate supervisors

18. List the details of employees having no immediate supervisor.

19. Show the resulting salaries if every employee working on the 'ProductX' project is given a 10 percent raise.

#This is use of arithmetic expression in select clause

20. List the first name and last name of all employees who work in the same department as the manager with last name 'Wong',

RESULT
The query was executed and output was successfully obtained.