

Assignment No.	3
Title	Design at least 10 SQL queries for suitable database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator.
Roll No.	
Class	T.E. (C.E.)
Date	
Subject	Database Management System Laboratory
Signature	

Aim:

create table location(location_id numeric(3) primary key,regional_group varchar(15));

create table department(Department_ID numeric(2) primary key,name varchar(20),location_id int, foreign key(location_id) references location(location_id));

create table job(job_ID numeric(3) primary key,function varchar(20));

create table employee(employee_ID numeric(4) primary key,last_name varchar(20),first_name varchar(20),middle_name varchar(20),job_id numeric(3),manager_id varchar(20), hired_date date, salary numeric(6), comm numeric(4), department_id numeric(2) not null,FOREIGN KEY (job_id) REFERENCES job(job_id),FOREIGN KEY (department_id) REFERENCES department(department_id));

Query::**Where Conditions:DMLTest**

1. List the details about "SMITH"
Select * from employee where last_name='SMITH';
2. List out the employees who are working in department 20
Select * from employee where department_id=20
3. List out the employees who are earning salary between 3000 and 4500
Select * from employee where salary between 3000 and 4500
4. List out the employees who are working in department 10 or 20
Select * from employee where department_id in (20,30)
5. Find out the employees who are not working in department 10 or 30
Select last_name, salary, comm, department_id from employee where department_id not in (10,30)
6. List out the employees whose name starts with "S"
Select * from employee where last_name like 'S%';

7. List out the employees whose name start with "S" and end with "H"
Select * from employee where last_name Like 'S%H';

Where Conditions:DMLTest

8. List out the employees whose name length is 5 and start with "S"
Select * from employee where last_name like 'S_____';
9. List out the employees who are working in department 10 and draw the salaries more than 3500
Select * from employee where department_id=10 and salary>3500
10. List out the employees who are not receiving commission.
Select * from employee where commission is Null

Order By Clause: DMLTest

11. List out the employee id, last name in ascending order based on the employee id.
Select employee_id, last_name from employee order by employee_id
12. List out the employee id, name in descending order based on salary column
Select employee_id, last_name, salary from employee order by salary desc
13. list out the employee details according to their last_name in ascending order and salaries in descending order

Assignment Question:

1. Explain DML.
2. Explain INSERT command with syntax.
3. Explain DELETE command with syntax.
4. Explain UPDATE command with syntax.
5. Explain SELECT command with syntax.
6. Enlist different comparisons operator. Explain with example.
7. Enlist different Logical operator. Explain with example.
8. Explain Order by clause.
9. Enlist different Aggregation function. Explain with example.