Experiment-

Aim: Queries on select, Insert, update and delete

Description:

DML is an abbieriation of Data Manipulation Language. The DML Commonts in structured Query Language change the data present in the SQL database We can easily access, store, modify, update and delete the existing records from the database using DML commands. SELECT:

- It is the most important data manipulation command in SQL.
- It shows the records of the specified table and also shows particular record of a particular column by using MITERE clause. INSERT:

- It is another most important data manipulation command in SQL, which allows user to insert data in database tables UPPATE:

- It allows users to update (or) modify the existing data in the

DELETE:

- -It allows son users to remove single on multiple existing records from
- It does not delete the stored data permenantly from the database

Aima: Write query to add how record into the table Employee.

syntax: insert into table-name values (columns-value, columns-value, ---);

Query: insert into employee values (4255, 'student', Bhanu', 13-Feb-2011', 50000);

Airne: Write a query to add new record into the table Depart?

Syntax: insert into table-name values (columns-values, columns-values, ---); Query: insert into Depart values (42, '(SM');

Output: 1 row inserted

Aim 3: Write a query to list all the records from the table employee?

Syntax: select & from table_name;

- It will display all the records from the table

Query: scleet x from employee;

Output: ENO ENAME JOB HIREDATE SALARY 4285 Bhanu Manager 12-02-23 100000 4277 Amar 75000 clerk 13-02-23 4286 Pavan 50000 HR 14-02-23 4267 Saketh Programmer 15-02-23 25000

Aim 4: Write a query to 18st all the records from the table Depart? Syntax: sclect * from table_name;

- It will display all the records from the table

Query: Select * from depart;

Output: DEPTNAME DEPT NO 42 CSM CSE 05 TT 12

Aims: Write query to display employee name, employee job from the table employee ?

Syntax: select column1, column2, --- from table_name;

Query: select ENAME, EJUB from employee;

ENAME JOB output:

Bhanu Manager

clerk Amar

pavan HR

Saketh programmer.

Aim6: Write a query to display all the employee names, salaries from the employee whose job is Manager !

Syntax: sciect column1, column2, --- from table-name where condition - It will display the paritular record from the table which Satisfies the given condition.

Query: select ENAME, SALARY from employee where JOB= Manager';

OUTPUT: ENAME SALARY

Bhanu 100000

Aim7: Write a query to 18H all the database tables available in the current user?

Syntax: select x from tab;

- It will displays all the tables present in the database.

TABTYPE CLUSTERSD autput: TNAME

> BIN & RAZGYY; KQCOGZGQUWIDQW = = \$0 TABLE

> DEPART TABLE

EMPLOYEE TABLE

EMPLOYEE1 MABLE

STUDENT1

TABLE STUDENTT 2

TABLE STUDENT

TABLE

Aim 8: Write a query to delete the records from depart table?

Syntax: delete table_name;

- It will delete the records present in the table.

Query! delete Depart;

output: 3 rows deleted.

Aimq: Write a query to delete the records from employee whose job is clerk?

Syntax: delete table_name where condition;

- It will delete the records based on the provided condition.

Query: delete employee where job='clerk';

output: 2 rows deleted.

Aim 10: Write a query to modify the salary column in employee for e employee salary is 200001-only?

Syntax: update table-name set column1 = values, column2 = value2, --where condition;

- It will update the given column with the given value based on the condition provided

Query: update employee set salery = 20000;

output 4 rows updated

Almaa: Write a query to modify the salary column in the table employee to add 2000 supres to each employee?

Syntax: Updale table_nome sel columns=values, columnz=values, ---; - It will update the girencolumn with given value

Query . Update employee set salary + solary + 2000;

Output: 4 rows updated

Aimiz: Witte a query to modify the job column by manager in the table employee whose job is clerk?

Syntax: Update table-name set column=value1, columnz=value2, -- where condition;

Query: update employee set job = 'Manager' where job = 'clerk';

Output: 1 row updated

Experiment

Aim: Queries related to operators.

Description:

In the Structured Query Language, there are many operators. Some of

them are

Arithemetic Operators:

- + addition
- subtraction
- Multiplication
- / division

Relational operators

- 4 lessthan
- 4 = less than or equal to
- greater than >
- >= greater than or equal to
- equal to
- not equal to !=

Special Operators

- 1) IN It returns true if the column-name is one of the values in column values list
- 2) BETWEEN It returns true if the column-name is existed in the range of columns and columnyalues
- 3) LIKE (OT) WILD CARD Operator:
 - It can be comisting of following two special characters
 - 1) Percentage (%) substituted by the any expression (more than 1 character
 - 2) Underscore (_) substituted by the single character
- 4) NULL The Standard SQL allows the use of Is NULL is to check for a NULL attribute (column) values.
- 5) EXISTS It returns true a Subquery returns at least one YOW Otherwise it is false.

VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY VVII Aim1: Write a query to list all the records from table employee whose salary is greater than 15000?

syntax: select & from employee column-name operator value;

- Here the relational operator (> is used to get the records)

Query: Select + from employee salary > 15000;

Output: EMPNO ENAME TOB HIREDATE SALARY
2 Stinu Marager 2-feb-02 20000

Aims: Write a query to lift employee names whose job is clerk and his salary 10000 from table employee?

Syntax: Select x from table-name operatorx;

- Inthis query we make use of relational operator (=) to get the required record from the table.

Query: Select x from employee where job='clerk' and Salary=10000;

OUTPUT : EMPNO ENAME JOB HIREDATE SALARY ramu clerk 4-Apr-04

Aim 3: Write a query to list all the records from the table employee what job is either clerk or manager?

Syntax: select & from table-name where condition;

Query: select & from employee where job = 'clerk' or job = 'Manager';

Output : EMPNO	Enployee	where job	o= 'clerk' or	job = 'Mana
1	ENAME	BOC	HIREDATE	
2	sriny	manager	1-jan-01	SALARY 15000
3	raju	manager	2-feb-02	20000
4	ramu	clerk	3-mar-03	12000
Aim4: Write a		SIEIK	4-Apr-04	10000

Aim4: Write a query to lift all the records from the table employee

Description: Here we use the Special operator (IN)

- This operator returns true if the column-name is one of the values in column values list.

```
Query: select & from employee where empno in (1,2,4);
output: EMPNO
               ENAME
                        JOB HIREPATE SALARY
               vasu manager 1-jan-01 15000
               Srinu monager 2-feb-oz 20000
               Yamu
                      clerk 3-man-03 10000
```

Aims: Write a query to find employee name from the table employee whose salary is between 10000 to 20000?

Description: Here we use the special operator (between)

-This operator returns true the column-name is existed in the range of columnvalue1 and columnvalue2

Query: Select * from employee where salary between 10000 and 20000;

output:	EMPNO			-	
		ENAME	JOB	HIREDATE	SALARY
	2	vasu	manager	1-jan-01	15000
	3	srinu	marager	2-feb-02	20000
4	raju	Clerk	3-Mar-03	12000	
	7	ramy	Clerk	4 - AUT - 04	10000

Aim6: Write a query to find employee name from employee which have 'NI' or 'SH' in them?

Description: Here we use the special operator (LIKE)

Query: select & from employee where ENAME Like 'NI' or Like 'SH'; output: no rows selected

Aim 7: Write a query to list all records from table whose third character must be 'I'?

Description: Here we use the special operator (LIKE)

- It consists of following two special characters.

- i) percentage (x) substituted by the any expression (more than 1 chara(ter
- 2) Underscore() substituted by the single character.

Query: Select * from employee where ENAME LIKE '-- 14';

ENAME JOB HIREDITE SALARY Output: EMPNO Srinu manager 2-feb-02 2 20000

Aim8: Write a query to list employee name and their job title from the table employee who are not get a salary?

Description: Here we use the special operator (NULL)

- The standard squ allows the use of ISNULL is to check for a NULL attribute (column) values

Query: select ENAME from employee where salary ISNULL; output: no rows selected