Task 3.1

18/8/25

DML commands using drawn operators and functions in queries

Aim:

To implement DML commands using clauses, operators, and function queries.

Data Manipulation language (DML)

The data manipulation language (DML) is using to insert and Modify database information. Those Modify database information.

the basic DML commands:

1. INSERT
2. UPDATE
3. DELETE

INSERT INTO

This is used to add records into a syntax.

Syntax:

Insert INTO < table.name>
Values. (data, data ... data n);

Example:

INSERT INTO patient VALUES (1, (Arun), (Ooty, Male);

syntax:

Sql

UPDATE table Same SET Field = data WHERE Condition;

Example:

Sql,

UPDATE Patients SET Patient Name = 'kumar'

WHERE Patient ID = 111;

Table after update:

Patient ID	Patient name	Department	creadet
111	Kumar	Cardiology	Male.

Syntax:

Sql:

DELETE FROM table - name;

Example.

Sql:

DELETE FROM Appointments

Appointment table after Delete;

Appoint ID	Patient ID	pacles ID	Appoine

Syntax:

Sql.

DELETE FROM table - name WHERE Conditions.

Example:

Sol:

DELETE FROM Doctor WHERE Doctor ID = 202;

Doctor table after DELETE:

Doctor ID	Doctor NAME	Dept	Fee
201	Dr. Raj	Cardiology	1000
203	Dr Ahmed	Neurology	900
204	Dr. Rajesh	Orthopedic	800
205	Dr. Jasen	Pediatrics	700

TRUNCATE:

This removes all data permanently but keeps the table structure.

Syntax:

Sol,

TRUNCATE TABLE < Table. name >.

Example:

Sample Queries and Output:

1. Retrive patient name ending with letter 'n' and patient no 105.

Query:

Sol

Select Patient name, Department, Grender, from WHERE patient Name like '%n' AND Patient ID

Patient Name	Department	Grender
Arun	Cardeology	male
Karan	orthoplics	male
Rohan	Dermatology	male

2. list doctors where consultion b/w 700 and 800

Doctor ID	Doctorname	Gender	Fees
202	Dr. Raj	male	700
207	Dr. Symon	male	800

4. find appointments with date >= 203...

Query:

Appointment Date >= '2003-00-07'

Appointment ID	Patient ID	Doctor ID	Amount
302	112	203	202.201
303	113	204	
304	114	200	
305	115	205	

List distinct patient IDs.

Query

SELECT DISTINT Patient ID from patients.

Patient ID

111
112
113
114
115

6. Combine patient IDs from

Query

Patient ID

111
112
113
114
116

7. Group patients based on gender and department query.

Sol:

Department	Gender	total patients
Cardiology	Male	1
Neurology	female	1
orthology	male	1
Delvia	female	1
Neurology	male	1

8. line doctor and their development using group by

Sol:

```
SELECT Doctor Name, Development,
Count (*),
FROM Doctor
GROUP By Patient, Department
```

Doctor name	Department	count
Dr Ahmed	Neurology	1
Dr sheba	Dentistry	1
Dr Divya	Pediatrician	1
Dr Anjali	Dontology	1

VEL TECH	
EX No.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	
TOTAL (20)	11
SIGN WITH DATE	13/8/24

Result:-

The implementation of DML commands using clases al and function in queries executed successfully.

Task 3.2 Aggregate function

18/8/25 (Multi Row operations)

Aim:

To study and implement aggregate function count(), sum(), AVG(), MIN(), MAX() on a same patient database

Procedure:

1. create a table named student
2. Insert sample read
3. Write queries using function,
4. observe and read the output

COMMANDS WITH EXPLANATION:

Patient-ID	Patname	Del.	Bill Amount
101	Arun	Cardiology	2006
102	Sneha	Neuro	3050
103	Karnan	Ortho	1506
105	Rohan	Neuro	4000

2) Find the highest bill amount

Sul.

SELECT MAX (BillAmount) AS Highest

FROM Patients:

output

Highest - Bill

4000

3. Find the average bill amount of Patients.

. SELECT AVG (Bill amount) Avorg (bill from patients.

output

Average - Bill

2700

4. Find the Minimum bill amount among patients in Aveely dept.

SELECT MIN (Bill amount) As Min,

Nun Dill

output

Min - Neuro - Bill

3500

output

Dept	Total Bill
Audiology	2000
Neurology	3500
orthotics	1500
Pelites	1500
Pulmony	4000

6. find the average amount, ordered by avg descending.

```
SELECT Department, AVG (department)as
FROM patients.
GROUP BY Department
```

Output:

Dept	Avg Bill
pelitics	4000
Neurology	3500
Pennatology,	2500
Oradolexi,	2000
orthpolio	1500

VEL TECH

EX No.	3
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	1
TOTAL (20)	
SIGN WITH DATE	

Result:

The implementation of Suggest functions are executed sucessfully. 18/8/25