

19/08/25

Task 3:1 DML Commands using clauses, operations, Functions in Queries.

Aim: To implement DML commands using clauses, operations & functions in queries.

Data manipulation language (DML):

The DML is used to retrieve insert and modify database information these commands will be used by all database user during routine operations of the database.

DML commands:

1. Insert into : this is used to add records into relation.

Syntax: Insert into table name (Col, col, ...) values (val1, val2, ...)

Example:

SQL Insert into Patient Values 1, 'Pavan', 77981812,

SQL Insert into Patient values 2 'Smith', 9983121, ¹⁰⁰⁰⁰Thagapavul ^{Vizag},

SQL Insert into Patient values 3, 'Shashank', ²⁰⁰⁰7799114, ⁵⁰⁰⁰Rajam

~~SQL Insert into Patient values 3~~

After Inserting:

Patient ID	Patient Name	Ph no	Address	Patient Bill
1	Pavan	7799138	Vizag	1000
2	Smith	999138	Thagapavul	2000
3	Shashank	7799114	Rajam	5000

2. update - set - where

This is used to update the content of a record in a relation.

Syntax: SQL \rightarrow update Table_name
SET column = value
where condition;

Example: SQL \rightarrow update Patient

SET Patient - phone no = '9913880'
where Patient - ID = 1

After updating:

Patient ID	Patient Name	Phno	Address	Patient Bill
1	Nishu	9913880	Vizag	1000
2	Smith	999138	Thagapudi	2000
3	Shashank	279914	Rajam	5000

~~Delete - from - where :- This is used to delete records select of relation.~~

Syntax: SQL \rightarrow Delete From relation - name where condition;

Example: SQL \rightarrow Delete from patient
where Patient - ID = 2

After deleting:

Patient ID	Patient Name	Ph no.	Address	Patient Bill
1	Nishu	'99138'	Vizag	1000
3	Yaswanth	'991434'	Rajam	5000

Truncate

This command will removed the data permanently but structure will not be removed.

Syntax: Truncate table <table-name>

Example: Truncate Table Patient

Patient ID : Patient Name Ph no Address Patient Bill

Distinct

Query: select Distinct Patient-Address

from Patient

Output: Patient-Address

Vizag

Thagapavalasa

Rajam.

Union;

Query: select Patient Name as Name from Patient union

select doctor name as name from doctor.

Output: Name

Pavani

Much

Smith

Varadach

VEL TECH	
EX No.	
PERFORMANCE (5)	3.1
RESULT AND ANALYSIS (5)	5
VIVA VOICES (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

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Result: The implementation of DML Command using clauses, operators and Functions in queries Executed successfully.

Task 3.2 Aggregate Functions

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Aim: To study and implement aggregate functions (count(), sum(), avg(), min(), max()) on a hospital management database

Procedure:

1. Create a table named patient
2. Insert sample records
3. Write queries using aggregate functions
4. Observe and record output.

Commands with Explanations

1. Count the total number of patient

select count(*) as total - Patient from Patient;

output: Total - Patient: 3

2. Find the highest purchase obtained by a patient

select max(Patient Bill) as highest - Bill from Patient.

output: Highest - Bill: 5000

3. Find the average amount of patient Bill

select avg(Patient Bill) as Average - Bill amount from Patient;

output: Average - Patient Bill: 2666

4. Find minimum Purchase among patient in the hospital

select min(Patient Bill) as Min Bill amount from Patient.

output: min-Bill: 1000

5) Find the Patient Bill in the Patient in each category Patient name.

output:

Patient name	Patient Bill
Parvati	1000
Smith	2000
Shashank	8000

6) Find the avg amount for brand patient name by average demand.

select Patient name avg (Patient bill) as Avg - Patient bill from Patient group by Patient name ordered by avg - Patient bill desc;

output:

Patient name	Patient Bill
Shashank	8000
Smith	2000
Parvati	1000

VEL TECH	
EX No.	3.2
PERFORMANCE (%)	
RESULT AND ANALYSIS (%)	
VIVA VOCE (%)	
RECORD (%)	
TOTAL (%)	
SIGN WITH DATE	

26/8/23

Result: This the implementation of Aggregate Function executed successfully.