

Aim:- To implement DML Commands using clauses, operators and 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 users during the routine operation of the database.

DML commands:

1. Insert into: This is used to add records into a relation.

Syntax: insert into <table name> (field1, field2...field_n)
Values (data-1, data-2, ..., data-n);

Example:- SQL > insert into Customer values (238, 'Ram',
'chennai', '986264090');

SQL > insert into Customer values (409, 'Rocky', 'vizag',
'844118092');

SQL > insert into customer values (112, 'Virat', 'Hyderabad',
'704986929');

After inserting:

Customer_ID	Name	address	Ph-no
238	Ram	chennai	986264090
409	Rocky	vizag	844118092
112	Virat	Hyderabad	704986929

2. Update - Set - Where

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

Syntax:- SQL > Update relation name Set Field_name1 = data,
Field_name2 = data, where field_name = data;

Example:- SQL > Update customer Set name = 'kumar' where
Customer_ID = 409

After updating:

Customer-ID	name	address	Ph-no
238	Ram	chennai	986264090
409	kumar	vizag	844118092
112	Virat	Hyderabad	704986929

3. Delete - from :

This is used to delete all the records of a relation but it will retain the structure of that relation.

a) Delete - from : This is used to delete all the records of relation.

Syntax: SQL > Delete from ~~customer~~ table-name;

Example: SQL > Delete from customer;

After deleting:

customer-ID	name	address	Ph-no

b) Delete - from - where : This is used to delete a selected record from a relation.

Syntax: SQL > Delete from relation-name where Condition;

Example:- SQL > Delete from customer where name = 'Ram';

After deleting:

Customer_ID	name	address	Ph-no
409	kumar	vizag	844118092
112	Virat	Hyderabad	704986929

5. Truncate

This command will remove the data permanently.
But structure will not be removed.

Syntax :- Truncate Table <Table Name>

Example :- Truncate Table Customer;

After truncate :-

Customer-ID	name	address	ph-no

Queries

1. Retrieve a member name starts with letter 'v'.

Query :- Select name from bank-account where name
like 'v%';

Output :-

Name
vijay
vikram
virat

2. List of Accounts where balance between 10000 and 20000;

Query :- select * from bank-account where balance between
10000 and 20000;

output :-

Name	Account_number	Balance	category
vijay	2345	10000	Savings
Vikram	7890	20000	Savings

3. Finding records who has minimum Balance

Query :- select min(balance) from bank-account;

output :-

min (Balance)
10000

4. Finding records who has Balance ≥ 20000 ;

Query:- select * from bank-account where balance ≥ 20000 ;

output:-

Name	Account-number	Balance	category
Vikram	7890	20000	Savings
Virat	4567	35000	Salary
akash	8987	50000	RD

5. Distinct


Query:- select distinct category from Bank-account;

output:-
Category
Savings
Salary
RD

6. Union

Query:- select name from customer union select name from bank-account;

output:-
Name
Rocky
Virat
Vijay
Vikram
Akash

VEL TECH	
EX NO.	31
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	1
TOTAL (20)	15
SIGN WITH DATE	

29/8/25

Result:- The Implementation of DML Commands using clauses, operators and functions in Queries executed successfully

Task NO: 3-2

Aggregate Functions

Date: 26/08/25

Aim: To study and implement aggregate functions (count(), sum(), Avg(), min(), max()).

Procedure:-

1. create a table named Bank-Account.
2. Insert sample records
3. write queries using aggregate-functions.
4. observe and record the output.

Commands with explanation.

1. Count the total number of students

Select Count * AS Total-amount From Bank-Account;

Output:- Total-amount
4

2. Find the highest amount in the account.

Select max(balance) AS highest-amount From Bank-Account;

Output:- Highest-amount
50000

3. Find the ^{amount} average Marks of ~~Students~~ Accounts.

select Avg(balance) AS Average-amount From Bank-Account;

Output:- Average-amount
28750

4) Find minimum Amount of the Account

Query: select min(balance) as min-amount from
Bank-account;

Output: min-amount
10000

5) Find the total amount in the Bank Account in
each category.

Query: select category, sum(balance) as total-amount
from bank-account group by category;

output:-

<u>Category</u>	<u>Total amount</u>
savings	20000
Salary	35000
RD	50000

6). Find the ~~Average~~ Balance per category ordered by
average Balance descending

Query:- select category, avg(balance) as avg-balance from
bank-account group by category order by avg-balance desc;

output:-

<u>category</u>	<u>Avg-Balance</u>
RD	50000
Salary	35000
Savings	15000

VEL TECH	
EX NO.	32
PERFORMANCE (5)	6
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	26
SIGN WITH DATE	

Result:- The Implementation of Aggregate Functions ~~and~~
executed successfully.