

Task NO: 3.1 DML commands using clauses, Operators, functions in queries

Aim: To implement DML commands using clauses, operators and functions in Queries.

Data Manipulation language :-

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.

After inserting;

Customer - ID	Name	Address	Ph-no
288	Ram	Chennai	986264090
409	Rocky	Vizag	844118092
112	Virat	Hyderabad	704986929

update-set - where

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

Syntax: SQL > update relation-name set field-name = data, field-name & = data, where field-name = data;

Example: SQL > update customer set name = 'kumar' where customer-ID = 409

After updating:-

customer-ID	name	address	ph-no
38	Ram	chennai	986264090
409	kumar	Mizag	844118092
112	Virat	Hyderabad	7049 86920

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 a relation.

Syntax: SQL > Delete from table-name;

Example: SQL > Delete from customer;

After deleting:

customer ID	name	address	ph-no

Delete -from where: This is used to delete a 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	84411800
112	virat	Hyderabad	704986929

5. Truncate

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

Syntax: Truncate Table / Table Names

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	0845	10000	Savings
Vikram	7890	80000	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 .accounts;

output :- name

Rocky

virat

vijay

virile ram

-Alash

10

VEL TECH	
EX NO.	31
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	14
TOTAL (20)	
SIGN WITH DATE	

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

✓
1/10/16

Result :- The implementation of DML commands using clauses, operators and functions with ~~functions~~ executed successfully.

Task no - 3.2

Date : 1-26/08/25

Aggregate Functions

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

Procedure :-

- create a table named Bank-account
- Insert sample records.
- write queries using aggregate functions
- observe and record the output.

Commands with explanation.

1. count the total number of students

select count * as Total amount from Bank-Acc
Output :- Total amount

2. find the highest amount in the account.
select max (balance) as highest_amount from Bank-account;

Output :- highest_amount

5000

3. find the average amount accounts.

select avg (balance) as average_amount from Bank-account;

Average amount

28750

4) find minimum - Amount of the account
Query :- select min(balance) as min-amount from bank-account;

Output :- min-account
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 :- ~~category~~ Total amount
~~savings~~ 30000
~~savings~~ 35000
~~RD~~ 50000

6.) find the average balance per category ordered by average balance descending

Query :- select category, avg(balance) as avg-balance, bank-account groups by category order by avg-balance

Output :- ~~category~~
RD
Salary
Savings

Avg-Balance	
50000	3.2
35000 VEL TECH	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	4
VIVA VOCE (5)	4
RECORD (5)	4
TOTAL (20)	14
SIGN WITH DATE	3

Result :- The implementation of aggregate function executed successfully.