

Task NO: 3-1 DDL commands using clauses, operators,
and -functions in queries

Date: 19-08-25

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.

Syntax : Insert into <table name> (field 1, field 2, ..., 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', 'vizaq', '844118092');

SQL > insert into customer values (112, 'Virat', 'Hyderabad', '704980929');

After inserting;

customer -ID	name	address	Ph-no
238	Ram	chennai	986264090
409	Rocky	vizaq	844118092
112	Virat	hyderabad	704980929

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
238	Ram	chennai	986264090
409	kumar	Uizag	844118092
112	viral	Hyderabad	7049 86929

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

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	844118000
112	virat	Hyderabad	704986929

3. 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 ≥ 20

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
vileeram
Akash

Apurva

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

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

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

Date - 26/08/25

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 student

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 average amount 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 :-

category	Total amount
savings	30000
savings	35000
DD	50000

6) find the average Balance Per category ordered
average Balance descending

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

Output:-

category	Avg - Balance
DD	50000
Salary	35000
savings	30000

INDEX NO.	3.2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	14
TOTAL (20)	31
SIGN WITH DATE	26/8

Result :- The implementation of aggregate function
executed successfully.