

Task no: 3  
Date: 19/8/25

## Using Clauses, Operators and Functions in Queries

Aim:

To implement the DML Commands using clauses, Operators and Functions in queries.

### Data Manipulation Language (DML):

1. Insert INTO: This is used to add records into a relation. There are three type of INSERT INTO queries

which are as. Syntax: insert into <tablename> (field1, field2 ... ,  
fieldn) values (data1, data2 ... data-n);

Eg: Sql > insert into user1 values (101, '7323456789', 'pkumar',  
'pkumar123@gmail.com', 'password#8', 'chennai');  
1 row created  
Sql > insert into user1 values (102, '7243657871', 'jason',  
'jax123@gmail.com', 'password#7', 'puducherry');  
1 row created  
Sql > insert into user1 values (103, '1243098763', 'manik',  
'manik32@gmail.com', 'password#1', 'trichy');  
1 row created.

Sql > Select \* from user1;

UserID	Phone	Name	Email	Password	Address
101	7323456789	Pkumar	pkumar123@gmail.com	password#8	Chennai
102	7243657871	Jason	jax123@gmail.com	password#7	Puducherry
103	1243098763	Manik	manik32@gmail.com	password#1	Trichy

## 2. 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-name2 = data, where field-name = data;

Eg: SQL > update User1 Set name = 'manikumar' where  
UserID = 101;

After updating:

User ID	Phone	Name	Email	Password	Address
101	73 23456789	manikumar	Premarao@gmail.com	Password #8	Chennai
102	1234567891	jason	jason@gmail.com	Password #9	Pondicherry
103	1243098763	manik	manik@gmail.com	Password #1	Tiruchy

## 3. Delete - from:

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

~~Delete - from - where :~~

~~Def : This is used to delete a selected record;~~

~~SQL > Delete from User1 where User ID = 103;  
1 row deleted~~

## 4. Truncate:

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

Select Queries:

1. Select Name , UserID from User where Address like '%.7.%'

Name	User ID
mamithuma	101
jason	102
Manik	103

2. Select Name, UserID , phone from User where User Id between 102 and 103

Name	User ID	Phone
jason	102	1234567871
Manik	103	12345678763

3. Select min (User ID) from User;

min (User ID)
101

4. Select User ID , Name , Phone , Email , password where User ID = 102;

User ID	Name	Phone	Email	Password
102	jason	1234567871	jason123@gmail.com	Password#9

5. Select User ID from user GROUP BY User ID

6. Select User ID , Name , from user order by ID DESC ;

User ID	Name
103	manik
102	jason
101	Pkumar

VELTECH	
EX No.	3.1
PERFORMANCE (%)	6
RESULT AND ANALYSIS	3
VIVA VOCE (%)	1
RECORDING	
TOTAL (%)	11
DATE OF EXAMINATION	20/10/2023

Result:

The task to implementation of the DML Commands  
are executed Successfully .

Aim:  
To study and implement aggregate functions (count(), sum(), avg(), min(), max()) on a e-commerce database system.

Commands with Explanation:

1. Count the total number of students.

Select count (\*) as total - Users from User ID;

Explanation:

\*Count (\*) counts how many rows (Users) are in the table

\* As Total - Users gives a user friendly column name

Output: Total - User  
-----  
4

2. find the highest amount in the account of the user.

Select max (User ID) As highest - ID from User;

Output: highest - ID  
-----  
114

- 3- find the average ID of user ID

Select Avg (User ID) As Average - ID from User\_ID;

Output: User ID  
Average ID  
112.

4. find Maximum ID of the User

Query : Select min (User ID) as min - ID from User;

Output: min - ID  
-----  
111

5. find the total ID in the User :

Query : select sum(userID) as total ID from Users  
output : Total ID  
450

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

Query :

Select avg(userID) as avg ID , Address from User group by Address;

output :

Address	Avg ID
chennai	
Tiruchy	

VELTECH	
EX No.	32
PERFORMANCE (S)	✓
RESULT AND ANALYSIS	5
VIVA VOCE (S)	1
RECORD (S)	—
TOTAL (S)	11
SIGN & DATE:	(W) 26/8/22

Result :

The Implementation of Aggregate function was scrubbed  
Successfully