

## Task-3 - using clauses, operators And Functions

### In Queries

Title:- Implementation of DML commands using clauses, operators and functions in queries.

- \* Insert Table.
- \* select Table.
- \* update Table.
- \* Delete Table.

### objective:-

- \* To understand the different input involved in the design and implementation of a database system.

### theory:-

#### Data Manipulation Language (DML):-

The Data Manipulation Language is used to retrieve, insert and modify database information. Let's take a brief look at the basic DML commands.

- 1) Insert
- 2) update
- 3) Delete

1) Insert Into:- This is used to add records into a relation. These are three type of Insert Into queries which are any.

#### Insertion a single word:-

Syntax:- INSERT INTO < relation / table name >  
(field-1, field-2, ..., field-n) VALUES  
(data-1, data-2, data-n);

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 1 > data, field  
> name 2 > data, where field-name = data;

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 relation-name;

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

Syntax:- SQL > Delete from relation-name WHERE condition;

4. TRUNCATE:- This command will remove the data permanently. But structure will not be removed.



Output:-

Total employees

Employees with salary

54

output:-

Highest salary

90000

output:-

lowest salary

65000

output:-

avg salary

77500

Output

Available Tables

shipping_id	status	customer
1	Pending	2
2	Pending	4
3	Delivered	3
4	Pending	5
5	Delivered	1

STUDENTS

ROLLNO	Name	AGE
101	Rahul	



Output

Total pay

310000



## AGGREGATE FUNCTIONS (MULTI ROW OPERATION)

**Aim:-** To study and implement aggregate functions (COUNT(), SUM(), AVG(), MIN(), MAX()) on a sample student database

### Procedures:-

- 1) Create a table named students.
- 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 -students FROM students;

Explanation:-

- \* MAX(Marks) return the max value in Marken column.
  - \* As Total -students gives a user -friendly column name.
- 2) Find the highest mark obtained by a student  
select Max (Marks) As Aghes - Mark From students;

Explanation:-

- \* MAX(MARKS) returns the max. value in the marks column.
  - \* This tells us the scorer's mark.
- 3) Find the average marks of students  
select AVG(Marks) As Avg -mark From students;

Explanation:-

- \* AVG(Marks) calculates the mean (average) of all student marks
- 4) Find the minimum marks among students in the ECE department  
select Min (Marks) As Min - ECE - Mark From students  
where Department = "ECE";

Explanation:-

- \* MIN(Marks) Finds the lowest mark.
  - \* where Department = 'ECE' restricts the calculation only to ECE Students.
- 5) Find the total marks scored by students in each department  
select Department, SUM (Marks) As Avg Marks From students  
Group By Department.

Explanation:-

- \* SUM (Marks) adds up marks.
  - \* Group By Department ensure that the total is calculated for each department separately.
- Result:-** Thus the SQL commands executed successfully based on student Database management system.

VEL TECH - CSE	
EX NO.	
PERFORMANCE (5)	3
RESULT AND ANALYSIS (5)	5
RECORD (5)	8
TOTAL (20)	20
DATE	27