

19/8/25

## Task 3-1 Using clauses, operators and functions in queries

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

- \* Insert table
- \* Select table
- \* Update table
- \* Delete table

### Objective:

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

DDL:

1. Insert 2. delete 3. Update 4. delete.

Insert into: This is used to add records  
 INSERT INTO <relation / table name> (field-1, field-2, ..., field-n) values (data-1, data-2, ..., data-n);

Example: SQL > Insert into member value (102/4 Shaan, HR, male),

Employee name	EMP ID	Age	place	gender	Role.
Rajesh	102	35	chennai	M	Developer
Ravi	103	38	Trichy	M	Developer
Shaan	104	30	Karur	M	HR

update - SET - WHERE : Used to update.

Syntax: SQL → update relation name SET field name = data, field-name 2 = data, where field - name = data; WHERE field - name = data;

Example: UPDATE Employee SET Employee name = 'Valan' WHERE EMP ID = 104;

Employee name	EMP-ID	Age	place	gender	Role
Rajesh	102	35	Chennai	M	Developer
Ram	103	38	Tiruch	M	Developer
Valan	104	30	Karur	M	HR

~~DELETE FROM~~ : Used to delete all the records

~~DELETE~~ Syntax: ~~DELETE~~ FROM relation - name WHERE condition.

~~Example~~ : DELETE FROM - Where : Used to delete a selected record from a relation.

~~DELETE~~ FROM Employee where age = 35  
output

Employee name	EMP-ID	Age	place	gender	Role
Ram	103	38	Tiruch	M	Developer
Valan	104	30	Karur	M	HR



Truncate : delete all values and  
structure remains same,

Example: TRUNCATE Employee

### Queries

1. Retrieve member name end with letter 'i' and member no between 101 and 103

Query:

SELECT first name,

last - name, salary

FROM employees

Where first - name

Like 'i.m';

Output

Employee name	ID	Age	place	gender	Role
Ravi	103	38	Trichy	M	Developer

2. List the ~~to~~ salary between clause and operator, where page count

Query:

salary ~~pagecount~~ Select \* from book where  
between 19000 and 22000;

### Output

id	Employee name	Salary
103	Ram	20,000

3. Find the records  
minimum number of ~~records~~ who has

### Output

Id	Employee name	Salary
104	Rajesh	15,000

4. Find the records  
date of joining is whose ~~date~~ greater than

2022-02-07

ID	Employee name	doj
103	Ram	2022-03-07

5. Combine the records of member  
id and employee relation union

Query.

SELECT membno FROM members  
Union select membno FROM  
borrowed;

### Output

employee id

101

102

103

104



6. Find the employee and their place details using group by and order by clauses

Query.

SELECT Employee, places,  
Count (\*) no FROM book places  
Group By ~~author~~ Employee  
Order by ~~author~~ Employee.

Output	
Employee name	places
Ravi	chennai
Rajesh	chennai

VEL TECH	
EX NO.	3.2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
DATE WITH DATE	20/10/20

Result: ~~The~~ ~~code~~ To implement the executed.

SQL commands are

successfully using clauses, operators and function in queries completed successfully

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## Aggregate Functions

### Task 3.2

Aim:

To study and implement aggregate functions (Count(), sum, AVG(), MIN(), MAX()) on a sample student database

procedure

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 total number of employees

```
SELECT COUNT(*) AS Total - students  
FROM Employee;
```

Explanation:

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

\* AS Total - ~~Students~~ Employee gives a user friendly column name.



2) Find the highest ~~marks~~<sup>salary</sup> obtained by a student.

SELECT MAX(salary) AS Highest  
- salary  
FROM EMPLOYEE

Output

Employee name	Id	salary
Ram	103	40,000

3) Find the minimum salary among the employees

Employee name	ID	salary
Rafesh	104	15,000

4) Find the highest salary among the employees

Employee name	Id	salary
Ram	103	40,000

5) Find the average age of Employees

~~Employee name~~  
SELECT AVG(Age) AS Avg - ~~marks~~<sup>Age</sup>  
FROM employees

Output

AVG - AGE

32

VEL TECH	
EX No.	3.2
PERFORM	5
RESULT	5
VIR	5
R	1
TO	✓
26/9/21	

Result : Thus ~~SQL~~ commands  
Aggregate functions  
Executed successfully based on  
Employee is created successfully.