Date: - 25-08-2025

Task-3.1 Using clauses operators, and functions inqueries.

Aim:- TO DMplemented of DML Commands using clauses of evalors and functions inqueries.

clauses:-

→ WHERE, orderBy, GROUPBY, HAVING, DISTINCT

operators:-

→ equal (=) → AND
→ Between → OR
→ AND → IN

```
CREATE TABLE DEPERTMENT
        DEPT ID INT PRIMARY KEY
        DEPT NAME VARCHR (50) UNIQUE
LOCATION VARCHR(50) NOT Null);
    CREATE TABLE STUDENT
    STUDENT INT PRIMARY KEY.
    NAME_VARCHAR (50) NOT NULL
    AGE INT CHECK (AGE >=18)
    Dept ID INT FOREIGN KEY REFGINCES
    DEPARTMENT (DEPT)
  CITY VARCHR(50) DEFAULT "UNKNOWN"
  JOIN DATE DATE TIME, DEFAULT, GETDEP)
  INSERT ID 'DEPARTMENT VALUES);
    (1, "CSG" HYDERABAD")
    (2, "EGF" MUMBAI);
     3, MECH, DELHI);
```

(INSERT) INTO STUDENT value):

(101 , UPPER (rahul) ,20,1, HYDERABAD

(INSERT INTO STUDENT VALUE)

INSERT INTO STUDENT VALUES)

(105, SARAKHAN (21)1, HYDEREBAD).

SELECT * From Studend.

S.No	STU-ID	NAME	AGE	DeptID	CITY	JoinDate
1	101	RAHUL	20	1	HYDERBAD	2025-08-26
2	202	ANJALI	22	2	MUMBAI	2025-08-26
3	103	KTRAN	19	1	PUNE	2025-08-26
4	104	MOHIT	23	3	DELHI	2025-8-26
5	105	SRARANA	21	1	HYDEBAD	2025-08-25

SELECT * FROM DEPARTMENT

S.No	Dept-ID	DEPT-NAME	LOCATION
1	1	CSG	HYD
2	2	EGE	Mumbai
3	3	MTECH	DELHI

SELECT NAME, AGE

From . STUDENT

WHERE AGE BETWEEN 19 and 22;

SNo	NAME	AGE
1	RAHUL	20
2	ANJALI	22
3	KTRAN	19
4	SARAKHN	4

SELECT NAME DEPT ID
FROM STUDENT
WHERE DEPT ID IN (1)
ORDER BY DEPT ID DESC

SNO	NAME	DEPT ID
1	MOHITH	2
2	SARAKHAN	1
3	RAHUL	1
4	KIRAN	19

UPDATE STUENT
SET AGE : AGE+1
WHERE DEPT RD = 1 AND AGE 21;

S.NO	STU.ID	Name	AGE	DEPT ID	CITY	JOIN
1	101	Rahul	21	1	HYDERABAD	26
2	102	Anjali	22	2	MUMBAI	8.2
3	103	KIRAN	20	1	PUNE	08 2
4	104	MOHITH	23	3	DELHI	8.26
5	101	SARAVAN	21	1	HYDERABAD	26

select Distinct city
From student;
city

1. Delhi
2. Hyderabad
3) Mumbi
4) pune

Select Dept ID, count(*) As total-Student
From Student
Group By Dept ID;

	Dept ID	total-students
1	1	3
2	2	1
3	3	1

Select Dept ID; count(*) As total-students
From Student;
Group Coun(H) >=2
Having coun(H) >=2.

VEL TECH

EX No.	3.1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	11
SIGN WITH DATE	

25/8/20

Dept ID Total students.

VEL TECH

EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Results The implemented of the classes, operators & functions in the queries CDDL and DML Commands.

Date
25-07-25 Task-3.2 AGGREGATE FUNTIONS

Aim:- To study & implement aggregate functions (count(), sum(), AVG(), min(), max() on a simple database.

AGGREGate functions

They're mostly with Grouped By to group the rows.

-> count()
-> sum()
-> AVG()
-> min()
-> max()

```
Create Table Student (
        RollNo INT PRIMARY key
        Name VARCHAR(50),
        AGE INT,
        Dept ID INT,
        Marks INT,
);
```

Insert In D Student 2 values

```
(1,'Arjun',20,101,25),
(2,'Sneha',21,101,90),
(3,'Ravi',19,102,95),
4,'Priya',20,102,95);
```

(5, 'Kiran', 20, 101, 60),
6, 'Anita', 23, 103, 85)

SELECT * From Student 2;

	RollNo	Name	AGE	DeptID	Marks
1	1	Arjun	20	101	85
2	2	Sneha	21	101	90
3	3	Ravi	19	102	70
4	4	priya	22	107	60
5	5	Kiran	20	101	60
6	6	Anita	23	103	88

Select DeptID, AVG(Marks) AS
~~Sto~~ From Student
Grouped By Dept ID;

	Dept ID	AVG. Marks
1	101	78
2.	102	92
3.	103	88

Select DEPT ID, max (Marks) AS TOP-Mark
From Student 2
Grouped By Dept ID;

	DEPT ID	Top-Marks
1	101	90
2	102	95
3	103	88

SELECT DEPTID, MIN (MARKS) AS LEAST Marks

From Student2

Grouped By Dept ID

	DeptID	LEAST-Mark
1	101	60
2	102	70
3.	103	78

Select DeptID, COUNT(*), As Stu-count.

From STUDENT2

Group BYDept ID;

	DEPT ID;	Stu. Count
1	101	3
2	102	2
3	103	1

VEL TECH	
EX No.	3.2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	1
RECORD (5)	
TOTAL (20)	11
SIGN WITH DATE	25/3/24

VEL TECH	
EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
VIVA VOCE (3)	
RECORD (4)	
TOTAL (15)	
SIGN WITH DATE	

Result :- Implementation of all aggregate functions has been performed successfully on the table.