Task : 3.2 . AGGregate functions (multi Row operation)

18/8/25.

Aim :

To study and implement aggregat function (COUNT (), SUM(), AVG(), MIN() MAX()) on a sample database.

Procedure.

1. Create a table named students.
2. Insert sample records
3. Write queries using aggregate function
4. observe and record the output.

COMMANDS WITH EXPLANATION:

Example Table : patients.

patient ID	patientname	Dept	BillAmoun
101	Arun	Cardiology	2000
102	Sneha	Neurology	3500
103	Karan	Orthopedics	1500
104	Meena	Pediatrics	4000
105	Rohan.	Dermatology	

1) Count the total number of patient.

Sql :

```
SELECT COUNT(*) AS Total_patients.
FROM patients;
```

output:

Total_patients.

5.

2. Find the highest bill amount.

sql:

```
SELECT MAX(Bill Amount) As highest_Bi
FROM patients:
```

output:

Highest_Bill

4000

3) Find the average bill amount of patients

sql:

```
SELECT Avg(Bill amount) As Average_bill
FROM patients.
```

output:

Average_Bill

2700

4) Find the minimus bill amount among patients in Neurology department.

sql:

```
SELECT Min(Bill Amount) As Min_Neuro_Bi
```

output:

Min_Neuro_Bill

3500

5. Find the total bill amount by each department.

sql:

```
SELECT Department, SUM(Bill Amount) As
Total_Bill
FROM patients.
GROUP By Department;
```

output:

Department	Total_Bill
cardiology	2000
Neurology	3500
Orthopedics	1500
Pediatrics	4000
Dermatology	

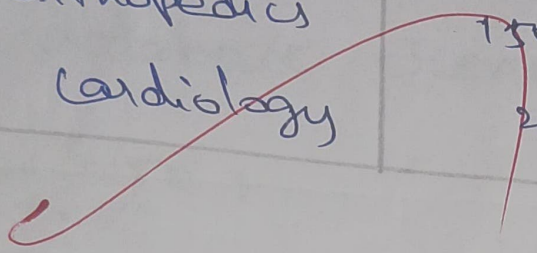
6. Find the average bill per department, ordered by average descending

sql:

```
SELECT Department, AVG(Bill Amount) As
AVG Bill.
FROM patients
GROUP - By Department
ORDER By Avg - Bill DESC;
```

output :

Department	Avg-Bill
pediatrics	4000
Neurology	3500
Dermatology	2500
orthopedics	1500
Cardiology	2000



VEL TECH - CSE	
EX NO.	8.2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	—
TOTAL (20)	14
SIGN WITH DATE	8/07/25

Result :

The implimentation of Aggregate funtions are executed successfully.