

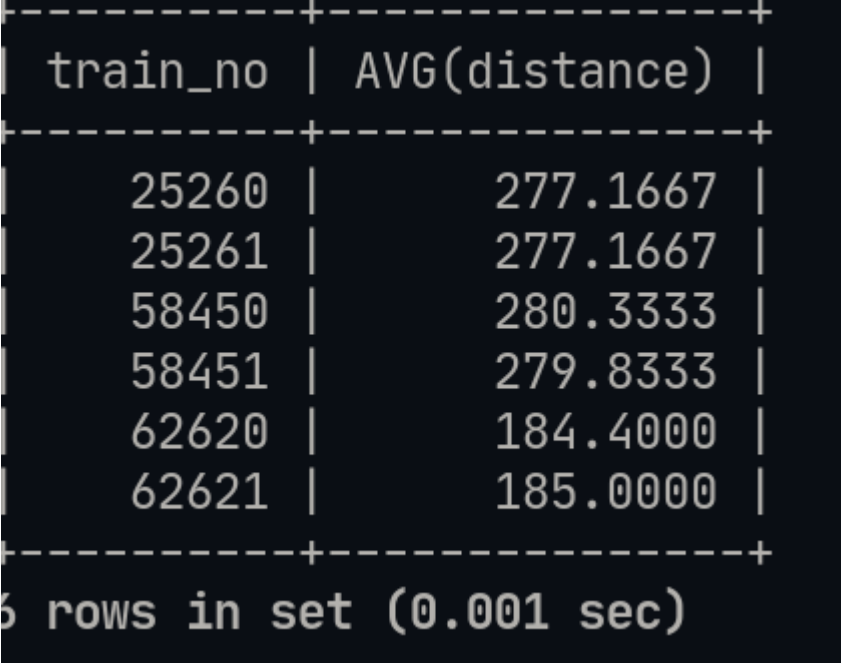
Lab-6 Aggregates :

Details :

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- Section : D

Question 1 :

```
SELECT train_no,AVG(distance) FROM ROUTE_INFO GROUP BY train_no;
```



The screenshot shows the output of a SQL query in a terminal window. The output is a table with two columns: 'train_no' and 'AVG(distance)'. There are six rows of data. The table is enclosed in a dashed border. At the bottom, it says '6 rows in set (0.001 sec)'.

train_no	AVG(distance)
25260	277.1667
25261	277.1667
58450	280.3333
58451	279.8333
62620	184.4000
62621	185.0000

6 rows in set (0.001 sec)

Question 2 :

```
SELECT train_no,AVG(distance) FROM ROUTE_INFO GROUP BY train_no  
ORDER BY AVG(distance) DESC;
```

train_no	AVG(distance)
58450	280.3333
58451	279.8333
25260	277.1667
25261	277.1667
62621	185.0000
62620	184.4000

6 rows in set (0.001 sec)

Question 3 :

```
CREATE VIEW temp3 AS SELECT
T.train_no,T.name,T.destination,RI.distance
FROM TRAIN AS T,ROUTE_INFO AS RI
WHERE T.source=RI.from_station_name AND
T.destination=RI.to_station_name;

SELECT * FROM temp3 ORDER BY distance DESC;
```

train_no	name	destination	distance
58450	MAN-BEN Express	Bengaluru	504
58451	BEN-MAN Express	Mangaluru	503
25261	Managaluru Mail	Mangaluru	481
25260	Chennai Mail	Chennai	362
62621	BEN-CHE Shatabdi	Chennai	362
62620	CHE-BEN Shatabdi	Bengaluru	361

6 rows in set (0.001 sec)

Question 4 :

```
CREATE VIEW temp5 AS SELECT train_no,COUNT(compartment_no) AS comp_no
FROM COMPARTMENT GROUP BY train_no;
```

```
SELECT train_no,comp_no FROM temp5
WHERE comp_no=(SELECT MAX(comp_no) FROM temp5);
```

```
SELECT train_no,comp_no FROM temp5
WHERE comp_no=(SELECT MIN(comp_no) FROM temp5);
```

```
+-----+-----+
| train_no | comp_no |
+-----+-----+
|      62621 |      5 |
+-----+-----+
1 row in set (0.001 sec)
```

```
+-----+-----+
| train_no | comp_no |
+-----+-----+
|      58451 |      2 |
|      62620 |      2 |
+-----+-----+
2 rows in set (0.001 sec)
```

Question 5 :

```
SELECT user_id,COUNT(phone_no) AS number_of_phones
FROM USER_PHONE
WHERE user_id='ADM_001' OR user_id='USR_006' OR user_id='USR_010'
GROUP BY user_id;
```

```

+-----+-----+
| user_id | number_of_phones |
+-----+-----+
| ADM_001 |                2 |
| USR_006 |                2 |
| USR_010 |                2 |
+-----+-----+
3 rows in set (0.001 sec)

```

Question 6 :

```

SELECT train_type,AVG(fare_per_km) AS Avg_Fare
FROM FARE_TABLE
GROUP BY train_type ORDER BY Avg_Fare DESC;

```

```

+-----+-----+
| train_type | Avg_Fare |
+-----+-----+
| Superfast  | 2.1799999872843423 |
| Fast       | 1.8166666825612385 |
| Mail       | 1.5333333214124043 |
+-----+-----+
3 rows in set (0.001 sec)

```

Question 7 :

```

SELECT user_id,fname,lname FROM USER WHERE age= (SELECT MAX(age) FROM
USER);

```

```
+-----+-----+-----+
| user_id | fname | lname |
+-----+-----+-----+
| USR_008 | Ajit  | Sethi  |
+-----+-----+-----+
1 row in set (0.001 sec)
```

Question 8 :

```
SELECT COUNT(*) AS number_of_people_with_ullal
FROM TICKET_PASSENGER WHERE name LIKE '%Ullal%';
```

```
+-----+  
| number_of_people_with_ullal |  
+-----+  
|                               4 |  
+-----+  
  
1 row in set (0.001 sec)
```