

DBMS

LAB – 6

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1. Query :

select Train_No, AVG(Distance) from route_info_385 GROUP BY Train_No;

```
MariaDB [railway_reservation]> select Train_No, AVG(Distance) from route_info_385 GROUP BY Train_No;
```

Train_No	AVG(Distance)
25260	277.166667
25261	277.166667
58450	280.333333
58451	279.833333
62620	184.400000
62621	185.000000

```
6 rows in set (0.010 sec)
```

2. Query :

select Train_No, AVG(Distance) from route_info_385 GROUP BY Train_No ORDER BY AVG(Distance) DESC;

```
MariaDB [railway_reservation]> select Train_No, AVG(Distance) from route_info_385 GROUP BY Train_No ORDER BY AVG(Distance) DESC;
```

Train_No	AVG(Distance)
58450	280.333333
58451	279.833333
25260	277.166667
25261	277.166667
62621	185.000000
62620	184.400000

```
6 rows in set (0.008 sec)
```

3. Query :

select Train_No, SUM(Distance) from route_info_385 GROUP BY Train_No ORDER BY AVG(Distance) DESC;

```
MariaDB [railway_reservation]> select Train_No, SUM(Distance) from route_info_385 GROUP BY Train_No ORDER BY AVG(Distance) DESC;
```

Train_No	SUM(Distance)
58450	1682.00
58451	1679.00
25260	1663.00
25261	1663.00
62621	1850.00
62620	1844.00

```
6 rows in set (0.002 sec)
```

4. Query :

MAX

select Train_No, MAX(total_avai) AS Max_Avai FROM (select SUM(compartment_385.Availability) AS total_avai, Train_No from compartment_385 group by Train_No) AS Total_Availability;

MIN

select Train_No, MIN(total_avai) AS Max_Avai FROM (select SUM(compartment_385.Availability) AS total_avai, Train_No from compartment_385 group by Train_No) AS Total_Availability;

```
MariaDB [railway_reservation]> select Train_No, MAX(total_avai) AS Max_Avai FROM (select SUM(compartment_385.Availability) AS total_avai, Train_No from compartment_385 group by Train_No) AS Total_Availability;
+-----+-----+
| Train_No | Max_Avai |
+-----+-----+
| 25260    | 93       |
+-----+-----+
1 row in set (0.001 sec)
```

```
MariaDB [railway_reservation]> select Train_No, MIN(total_avai) AS Max_Avai FROM (select SUM(compartment_385.Availability) AS total_avai, Train_No from compartment_385 group by Train_No) AS Total_Availability;
+-----+-----+
| Train_No | Max_Avai |
+-----+-----+
| 25260    | 14       |
+-----+-----+
1 row in set (0.001 sec)
```

5. Query :

select User_ID, Phone_No from user_phone_385 where User_ID IN ('ADM_001', 'USR_006', 'USR_010');

```
MariaDB [railway_reservation]> select User_ID, Phone_No from user_phone_385 where User_ID IN ('ADM_001', 'USR_006', 'USR_010');
+-----+-----+
| User_ID | Phone_No |
+-----+-----+
| ADM_001 | 9900123456 |
| ADM_001 | 9845012345 |
| USR_006 | 9900123456 |
| USR_006 | 9845012345 |
| USR_010 | 9900123456 |
| USR_010 | 9845012345 |
+-----+-----+
6 rows in set (0.002 sec)
```

6. Query :

```
select Train_Type, AVG(FarePerKM) AS Avg_Fare from  
fare_table_385 GROUP BY Train_Type ORDER BY Avg_Fare  
DESC;
```

```
MariaDB [railway_reservation]> select Train_Type, AVG(FarePerKM) AS Avg_Fare from fare_table_385 GROUP BY Train_Type ORDER BY Avg_Fare DESC;  
+-----+-----+  
| Train_Type | Avg_Fare |  
+-----+-----+  
| Superfast | 2.180000 |  
| Fast      | 1.816667 |  
| Mail      | 1.533333 |  
+-----+-----+  
3 rows in set (0.003 sec)
```

7. Query :

```
select * from user_385 where Age = (select MAX(Age) AS Age  
from user_385);
```

```
MariaDB [railway_reservation]> select * from user_385 where Age = (select MAX(Age) AS Age from user_385);  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| User_ID | User_Type | FName | LName | Age | DOB          | PinCode | Street          |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| USR_008 | PSGR      | Ajit  | Sethi | 56  | 1966-04-14   | 575001  | 6 Poes Garden  |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
1 row in set (0.007 sec)
```

8. Query :

```
select COUNT(Name) FROM ticket_passenger_385 where Name  
LIKE '%Ullal';
```

```
MariaDB [railway_reservation]> select COUNT(Name) FROM ticket_passenger_385 where Name LIKE '%Ullal';  
+-----+  
| COUNT(Name) |  
+-----+  
| 4           |  
+-----+  
1 row in set (0.003 sec)
```