# <u>DBMS</u><u>LAB</u> – <u>5</u>

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**SRN**: PES1UG20CS385

```
--First view--
CREATE VIEW compute_price_385 AS
SELECT ticket_385.PNR, ticket_385.Train_No, ticket_385.Departure,
ticket_385.Arrival,
route_info_385.Distance, fare_table_385.FarePerKM
FROM ticket_385, route_info_385, fare_table_385
WHERE (ticket_385.Train_No = route_info_385.Train_No AND
       ticket_385.Departure = route_info_385.From_Station_Name AND
       ticket_385.Arrival = route_info_385.To_Station_Name AND
       fare table 385. Train Type = ticket 385. Train Type AND
       fare_table_385.Compartment_Type = ticket_385.Compartment_type);
  --second view--
CREATE VIEW passenger_num_385 AS SELECT ticket_passenger_385.PNR,
COUNT(ticket_passenger_385.PNR) as numbers from ticket_passenger_385 GROUP BY
ticket_passenger_385.PNR;
  --final query--
UPDATE payment_info_385 AS pi INNER JOIN compute_price_385 AS cp ON pi.PNR =
cp.PNR INNER JOIN passenger_num_385 AS pn on cp.PNR = pn.PNR SET pi.Price =
cp.Distance * cp.FarePerKM * pn.numbers;
```

SELECT train\_385.Train\_No, train\_385.Name, route\_info\_385.From\_Station\_No, route\_info\_385.From\_Station\_Name, route\_info\_385.To\_Station\_Name, route\_info\_385.To\_Station\_No, route\_info\_385.Distance from train\_385 NATURAL JOIN route info 385;

### **OUT PUT:**

Train_No		From_Station_Name			
25260	+   Chennai Mail	t   Mangaluru	Kannur	2	
25260	Chennai Mail	Mangaiuru   Kannur	Kannur   Palakkad		
25260		Rannur   Palakkad			220.00
	Chennai Mail		Chennai		130.00
25260	Chennai Mail	Mangaluru	Palakkad	3	351.00
25260	Chennai Mail	Mangaluru	Chennai	4	481.00
25260	Chennai Mail	Kannur	Chennai		350.00
25261	Managaluru Mail	Chennai	Palakkad		130.00
25261	Managaluru Mail	Palakkad	Kannur		220.00
25261	Managaluru Mail		Mangaluru		131.00
25261	Managaluru Mail	Chennai	Kannur		350.00
25261	Managaluru Mail		Mangaluru		481.00
25261	Managaluru Mail		Mangaluru		351.00
58450	MAN-BEN Express		Subramanya		
58450	MAN-BEN Express		Mysore		170.00
58450	MAN-BEN Express		Bengaluru		
58450	MAN-BEN Express	Mangaluru	Mysore		365.00
58450	MAN-BEN Express		Bengaluru		
58450	MAN-BEN Express		Bengaluru		309.00
58451	BEN-MAN Express	Bengaluru	Mysore		
58451	BEN-MAN Express		Subramanya		
58451	BEN-MAN Express	Subramanya	Mangaluru		
58451	BEN-MAN Express	Bengaluru	Subramanya		309.00
58451	BEN-MAN Express	Bengaluru	Mangaluru		
58451	BEN-MAN Express	Mysore	Mangaluru		364.00
62620	CHE-BEN Shatabdi	Chennai	Sholingur		
62620	CHE-BEN Shatabdi	Sholingur	Katpadi		39.00
62620	CHE-BEN Shatabdi	Katpadi	Bangarpet		
62620	CHE-BEN Shatabdi	Bangarpet	Bengaluru		71.00
62620	CHE-BEN Shatabdi	Chennai	Katpadi		129.00
62620	CHE-BEN Shatabdi	Chennai	Bangarpet		290.00
62620	CHE-BEN Shatabdi	Chennai	Bengaluru		361.00
62620	CHE-BEN Shatabdi	Sholingur	Bangarpet		200.00
62620	CHE-BEN Shatabdi	Sholingur	Chennai		271.00
62620	CHE-BEN Shatabdi	Katpadi	Chennai		232.00
62621	BEN-CHE Shatabdi	Bengaluru	Bangarpet		
62621	BEN-CHE Shatabdi	Bangarpet	Katpadi		161.00
62621	BEN-CHE Shatabdi	Katpadi	Sholigur		40.00
62621	BEN-CHE Shatabdi	Sholingur	Chennai		90.00
62621	BEN-CHE Shatabdi	Bengaluru	Katpadi		232.00
62621	BEN-CHE Shatabdi	Bengaluru	Sholigur		272.00
62621	BEN-CHE Shatabdi	Bengaluru	Chennai		362.00
62621	BEN-CHE Shatabdi		Sholigun	4	201.00
62621	BEN-CHE Shatabdi		Chennai		

# 3. Query:

```
SELECT user_385.Fname, user_385.Lname, V1.Price FROM ( SELECT payment_info_385.Price, payment_info_385.PNR, ticket_385.User_ID FROM payment_info_385 INNER JOIN ticket_385 ON payment_info_385.PNR = ticket_385.PNR) AS V1 INNER JOIN user_385 ON V1.User_ID = user_385.User_ID WHERE V1.Price > 500;
```

### **OUT PUT:**

```
MariaDB [railway_reservation]> SELECT user_385.Fname, user_385.Lname, V1.Price FROM ( SELECT payment_info_385.Price, payment_info_385.P
NR, ticket_385.User_ID FROM payment_info_385 INNER JOIN ticket_385 ON payment_info_385.PNR = ticket_385.PNR) AS V1 INNER JOIN user_385
ON V1.User_ID = user_385.User_ID WHERE V1.Price > 500;
```

Fname	Lname	Price		
•	+	++		
Muhammed	Ali	806.40		
Arjun	Allu	533.50		
Narendra	Modi	2389.20		
Manmohan	Singh	1298.70		
Droupadi	Murmu	558.72   2382.60   957.00		
Narendra	Modi			
Droupadi	Murmu			
Muhammed	Ali	2213.20		
Manmohan	Singh	913.90		
+ 9 rows in se	<del></del>	++		

# 5. Query:

```
SELECT user_385.Fname, user_385.Lname, user_385.DOB, ticket_385.PNR FROM user 385.User ID = ticket 385.User ID
```

```
### Branch | Select | User 385. Finame, user 385. Dame, user 385. Dame, user 385. Dame, user 385. Dame, user 385. Dame | Select | Select 385. Dame | Select 385. Dame
```

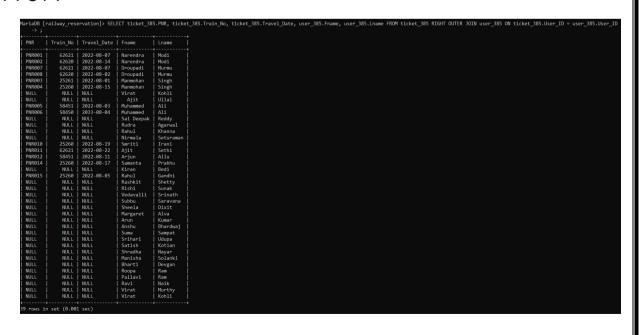
```
SELECT * FROM ( SELECT user_385.Fname, user_385.Lname, ticket_385.PNR FROM user_385 LEFT OUTER JOIN ticket_385 ON user_385.User_ID = ticket_385.User_ID)
AS T1 WHERE T1.PNR IS NULL
```

### **OUT PUT:**

Fname	Lname	PNR	
Virat	Kohli	NULL	
Ajit	Ullal	NULL	
Sai Deepak	Reddy	NULL	
Rudra	Agarwal	NULL	
Rahul	Khanna	NULL	
Nirmala		NULL	
Kiran	Bedi	NULL	
Rashkit	Shetty	NULL	
Rishi	Sunak	NULL	
Vedavalli	Srinath	NULL	
Subbu	Saravana	NULL	
Sheela	Dixit	NULL	
Margaret	Alva	NULL	
Arun	Kumar	NULL	
Anshu	Bhardwaj	NULL	
Suma	Sampat	NULL	
Srihari	Udupa	NULL	
Satish	Kotian	NULL	
Shradha	Nayar	NULL	
Manisha	Solanki	NULL	
Bharti	Devgan	NULL	
Roopa	Ram	NULL	
Pallavi	Ram	NULL	
Ravi	Naik	NULL	
Virat	Murthy	NULL	
Virat	Kohli	NULL	

# 7. Query:

SELECT ticket\_385.PNR, ticket\_385.Train\_No, ticket\_385.Travel\_Date, user\_385.Fname, user\_385.Lname FROM ticket\_385 RIGHT OUTER JOIN user\_385 ON ticket\_385.User\_ID = user\_385.User\_ID



```
SELECT ticket_385.User_ID, ticket_385.Train_No, train_385.Name from ticket_385
RIGHT OUTER JOIN train_385 ON ticket_385.Train_No = train_385.Train_No
```

### **OUT PUT:**

### 9. Query:

```
SELECT ticket_385.User_ID
FROM payment_info_385 NATURAL JOIN ticket_385
where payment_info_385.price > (SELECT AVG(payment_info_385.Price) FROM
payment_info_385)
```

```
MariaDB [railway_reservation]> SELECT ticket_385.User_ID
-> FROM payment_info_385 NATURAL JOIN ticket_385
-> where payment_info_385.price > (SELECT AVG(payment_info_385.Price) FROM payment_info_385)
-> ;
+-----+
| User_ID |
+-----+
| ADM_001 |
| ADM_003 |
| ADM_001 |
| USR_002 |
+------+
4 rows in set (0.006 sec)
```