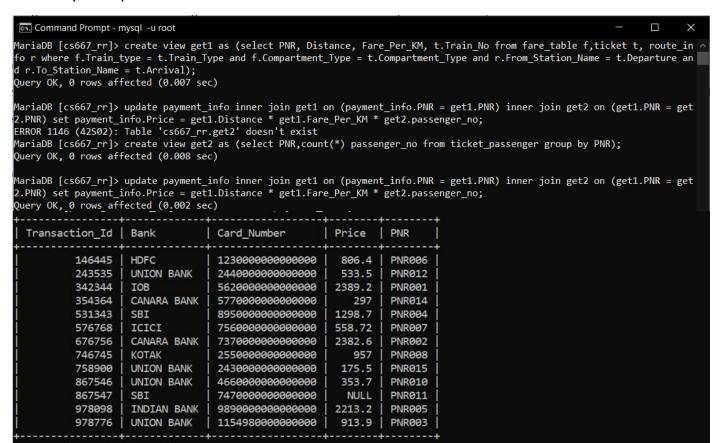
## DBMS LAB 5

07.10.2022

## NIKHIL RAJU MOHITE PES1UG20CS667

K Section

## 1. Update price of the ticket.



## 2. Retrieve the all stations along route of the Trains along with the distance between the stations.

ain_no	train_name	from_station_name				destination
25260		+   Mangaluru	+   Kannur	131		: :
25260	Chennai Mail	Mangaluru	Palakkad	351	Mangaluru	Chennai
25260	Chennai Mail	Mangaluru	Chennai	481	Mangaluru	Chennai
25260	Chennai Mail	Kannur	Palakkad	220	Mangaluru	Chennai
25260	Chennai Mail	Kannur	Chennai	350	Mangaluru	Chennai
25260	Chennai Mail	Palakkad	Chennai	130	Mangaluru	Chennai
25261	Managaluru Mail	Chennai	Palakkad	130	Chennai	Mangaluru
25261	Managaluru Mail	Chennai	Kannur	350	Chennai	Mangaluru
25261	Managaluru Mail	Chennai	Mangaluru	481	Chennai	Mangaluru
25261	Managaluru Mail	Palakkad	Kannur	220	Chennai	Mangaluru
25261	Managaluru Mail	Palakkad	Mangaluru	351	Chennai	Mangaluru
25261	Managaluru Mail	Kannur	Mangaluru	131	Chennai	Mangaluru
58450	MAN-BEN Express	Mangaluru	Subramanya	195	Mangaluru	Bengaluru
58450	MAN-BEN Express	Mangaluru	Mysore	365	Mangaluru	Bengaluru
58450	MAN-BEN Express	Mangaluru	Bengaluru	504	Mangaluru	Bengaluru
58450	MAN-BEN Express	Subramanya	Mysore	170	Mangaluru	Bengaluru
58450	MAN-BEN Express	Subramanya	Bengaluru	309	Mangaluru	Bengaluru
58450	MAN-BEN Express	Mysore	Bengaluru	139	Mangaluru	Bengaluru
58451	BEN-MAN Express	Bengaluru	Mysore	139	Bengaluru	Mangaluru
58451	BEN-MAN Express	Bengaluru	Subramanya	309	Bengaluru	Mangaluru
58451	BEN-MAN Express	Bengaluru	Mangaluru	503	Bengaluru	Mangaluru
58451	BEN-MAN Express	Mysore	Subramanya	170	Bengaluru	Mangaluru
58451	BEN-MAN Express	Mysore	Mangaluru	364	Bengaluru	Mangaluru
58451	BEN-MAN Express	Subramanya	Mangaluru	194	Bengaluru	Mangaluru
62620	CHE-BEN Shatabdi	Chennai	Sholingur	90	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Chennai	Katpadi	129	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Chennai	Bangarpet	290	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Chennai	Bengaluru	361	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Sholingur	Katpadi	39	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Sholingur	Bangarpet	200	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Sholingur	Chennai	271	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Katpadi	Bangarpet	161	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Katpadi	Chennai	232	Chennai	Bengaluru
62620	CHE-BEN Shatabdi	Bangarpet	Bengaluru	71	Chennai	Bengaluru
62621	BEN-CHE Shatabdi	Bengaluru	Bangarpet	71	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bengaluru	Katpadi	232	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bengaluru	Sholigur	272	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bengaluru	Chennai	362	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bangarpet	Katpadi	161	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bangarpet	Sholigur	201	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Bangarpet	Chennai	291	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Katpadi	Sholigur	40	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Katpadi	Chennai	130	Bengaluru	Chennai
62621	BEN-CHE Shatabdi	Sholingur	Chennai	90	Bengaluru	Chennai

| 62621 | BEN-CHE Shatabdi | Sholingur | Chennai | 90 | Bengaluru | Chennai |
44 rows in set (0.015 sec)
MariaDB [cs667\_rr]>

3. Retrieve the Train no of train which is leaving Bengaluru and arriving at Chennai with compartments availability greater than 10.

```
MariaDB [pes1ug20cs658_rr]> select distinct t.Train_no,Arrival,Destination from train t,
  compartment c where Arrival = "Bengaluru" and Destination = "Chennai" and c.Availabilit
y > 10;
+-----+
| Train_no | Arrival | Destination |
+-----+
| 62621 | Bengaluru | Chennai |
+-----+
1 row in set (0.001 sec)
MariaDB [pes1ug20cs658_rr]> 
MariaDB [pes1ug20cs658_rr]>
```

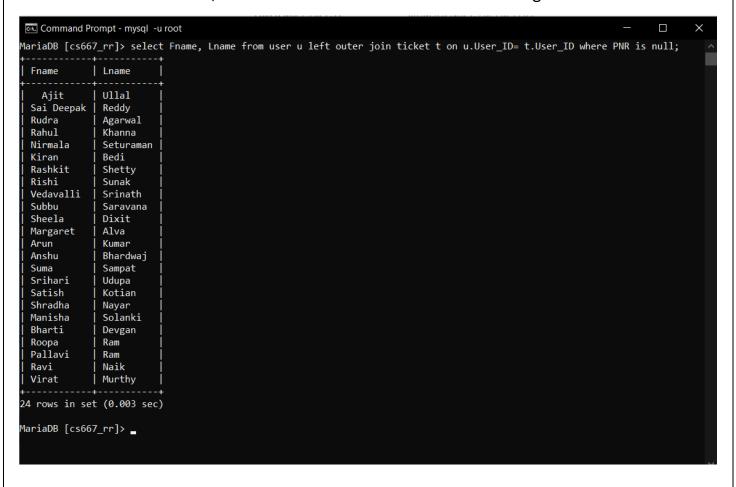
4. Retrieve first and last name of users who have booked a ticket with price greater than 500.

```
Fname
          | Lname |
            Δli
Muhammed
Arjun
            Allu
Narendra
            Modi
Manmohan
            Singh
Droupadi
            Murmu
Narendra
            Modi
Droupadi
            Murmu
Muhammed
            Ali
Manmohan
            Singh
rows in set (0.003 sec)
```

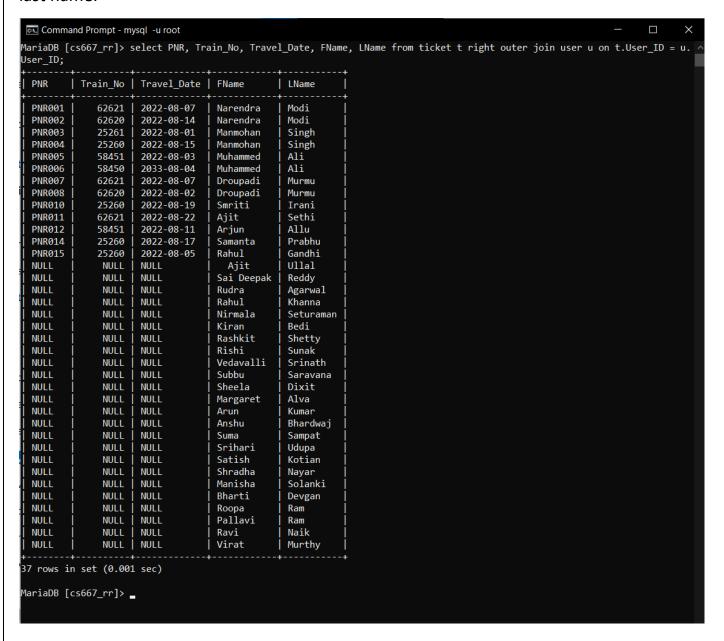
5. Retrieve the first name, last name, DOB and ticket PNR if they've bought it for all users.

```
👞 Command Prompt - mysql -u root
MariaDB [cs667_rr]> select distinct Fname,Lname,DOB,PNR from ticket t left outer join user u ON u.User_ID = t.User_ID;
  Fname
            | Lname | DOB
                                  PNR
  Narendra
             Modi
                       1989-04-14
                                    PNR001
  Narendra
              Modi
                       1989-04-14
                                    PNR002
                       1991-04-08
  Manmohan
              Singh
                                    PNR003
  Manmohan
              Singh
                       1991-04-08
                                    PNR004
  Muhammed
                       2000-10-09
                                    PNR005
  Muhammed
              Ali
                       2000-10-09
                                    PNR006
  Droupadi
              Murmu
                       1990-04-14
                                    PNR007
  Droupadi
              Murmu
                       1990-04-14
                                    PNR008
  Smriti
              Irani
                       1999-12-16
                                    PNR010
  Ajit
              Sethi
                       1966-04-14
                                    PNR011
  Arjun
              Allu
                       1967-04-08
                                    PNR012
              Prabhu
                      1968-04-14 | PNR014
  Samanta
             Gandhi | 1970-04-08 | PNR015 |
  Rahul
13 rows in set (0.002 sec)
MariaDB [cs667_rr]>
```

6. Retrieve the first name, last name of the Users who have not bought a ticket.



7. Retrieve the ticket PNR, Train number, travel date and along with all users first name and last name.



8. Retrieve the user id if they've travelled in a train along with train id and name of all trains.

```
Command Prompt - mysql -u root
                                                                                                                    ×
MariaDB [cs667_rr]> select User_ID , train.Train_no, Train_name from ticket right outer join train on ticket.Train_no = tra
in.Train_No;
 User_ID | Train_no | Train_name
  ADM_001
               62621
                       BEN-CHE Shatabdi
 ADM 001
                       CHE-BEN Shatabdi
              62620
  ADM_003
               25261
                       Managaluru Mail
  ADM_003
               25260
                       Chennai Mail
 USR 002
               58451
                      BEN-MAN Express
               58450
                       MAN-BEN Express
  USR 002
  ADM_002
               62621
                       BEN-CHE Shatabdi
  ADM_002
               62620
                       CHE-BEN Shatabdi
  USR_007
               25260
                       Chennai Mail
                       BEN-CHE Shatabdi
 USR 008
              62621
  USR_009
               58451
                       BEN-MAN Express
  USR 010
               25260
                       Chennai Mail
               25260 | Chennai Mail
 USR_012
13 rows in set (0.001 sec)
MariaDB [cs667_rr]>
```

9. Retrieve the train no and name of trains whose destination is not Mangalore and distance is not less than 100km and departure time is not 8:30:00 PM.

10. Retrieve the User ID who has spent more ticket price than the average ticket price

```
MariaDB [cs667_rr]> select User_ID from ticket where PNR in (select PNR from payment_info where Price > (select avg(Price) from payment_info));

+-----+
| User_ID |
+-----+
| ADM_001 |
| ADM_001 |
| ADM_003 |
| USR_002 |
+-----+
4 rows in set (0.001 sec)
```