

DBMS

LAB – 4

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TASK – 1

1. A. Inserting values into TRAIN_385 table using load command.

Code :

```
LOAD DATA INFILE
"C:\\xampp\\mysql\\data\\My_DB\\Data_Railway_Reservation_Train.csv" INTO TABLE
TRAIN_385
COLUMNS TERMINATED BY ','
OPTIONALLY ENCLOSED BY '"'
ESCAPED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 LINES;
```

B. Using INSERT INTO USER_385 command.

```
INSERT INTO USER_385 (User_ID, User_Type, FName, LName, Age, DOB, PinCode, Street) VALUES
('USR_001', 'PSGR', 'Ajit', 'Ullal', NULL, 1971-01-01, 560001, '10 Janpath'),
('USR_002', 'PSGR', 'Muhammed', 'Ali', NULL, 09-10-2000, 560003, '10 Downing'),
('USR_003', 'PSGR', 'Sai Deepak', 'Reddy', NULL, 12-12-1996, 600001, '14 Kailsh Marg'),
('USR_004', 'PSGR', 'Rudra', 'Agarwal', NULL, 13-12-1996, 600042, '5 Lohia Garden'),
('USR_005', 'PSGR', 'Rahul', 'Khanna', NULL, 14-12-1997, 600067, '1 Pink Street'),
('USR_006', 'PSGR', 'Nirmala', 'Seturaman', NULL, 15-12-1998, 560105, '3 Blue Avenue'),
('USR_007', 'PSGR', 'Smriti', 'Irani', NULL, 16-12-1999, 575014, '4 Banyan Avenue'),
('USR_008', 'PSGR', 'Ajit', 'Sethi', NULL, 14-04-1966, 575001, '6 Poes Garden'),
('USR_009', 'PSGR', 'Arjun', 'Allu', NULL, 08-04-1967, 575020, '7 Dhamaka street'),
('USR_010', 'PSGR', 'Samanta', 'Prabhu', NULL, 14-04-1968, 600042, '8 Clone Colony'),
('USR_011', 'PSGR', 'Kiran', 'Bedi', NULL, 14-04-1969, 560003, '56 Brigade Road'),
('USR_012', 'PSGR', 'Rahul', 'Gandhi', NULL, 08-04-1970, 475001, 'Mirza road'),
('USR_013', 'PSGR', 'Rashkit', 'Shetty', NULL, 14-04-1971, 560009, 'JC Road'),
('USR_014', 'PSGR', 'Rishi', 'Sunak', NULL, 14-04-1972, 600034, 'Anna Sali'),
('USR_015', 'PSGR', 'Vedavalli', 'Srinath', NULL, 14-04-1973, 560054, 'Church Street Bangalore'),
('USR_016', 'PSGR', 'Subbu', 'Saravana', NULL, 14-04-1974, 600043, 'American Street'),
('USR_017', 'PSGR', 'Sheela', 'Dixit', NULL, 08-04-1975, 560048, 'Kasturba Road'),
('USR_018', 'PSGR', 'Margaret', 'Alva', NULL, 14-04-1976, 560008, 'New BEL Road'),
('USR_019', 'PSGR', 'Arun', 'Kumar', NULL, 14-04-1977, 600046, 'Mint Street'),
('USR_020', 'PSGR', 'Anshu', 'Bhardwaj', NULL, 14-04-1978, 575001, 'KSR Road'),
('USR_021', 'PSGR', 'Suma', 'Sampat', NULL, 08-04-1979, 560012, 'Old Airport Road Bangalore'),
('USR_022', 'PSGR', 'Srihari', 'Udupa', NULL, 14-04-1980, 560015, 'Suranjan Das Road'),
('USR_023', 'PSGR', 'Satish', 'Kotian', NULL, 14-04-1981, 600044, 'T Nagar'),
('USR_024', 'PSGR', 'Shradha', 'Nayan', NULL, 08-04-1982, 560006, 'M G Road Bangalore'),
('USR_025', 'PSGR', 'Manisha', 'Solanki', NULL, 08-04-1983, 575030, 'M G Road'),
('USR_026', 'PSGR', 'Bharti', 'Devgan', NULL, 14-04-1984, 560059, 'NAL Wind Tunnel Road'),
('USR_027', 'PSGR', 'Roopa', 'Ram', NULL, 14-04-1985, 575023, 'Bunder Road'),
('USR_028', 'PSGR', 'Pallavi', 'Ram', NULL, 08-04-1986, 560044, 'Lavelle Road'),
('USR_029', 'PSGR', 'Ravi', 'Naik', NULL, 14-04-1987, 600045, 'Thiru V ka Salai'),
('USR_030', 'PSGR', 'Virat', 'Murthy', NULL, 14-04-1988, 575011, 'Bejai New Road'),
('ADM_001', 'ADMIN', 'Narendra', 'Modi', NULL, 14-04-1989, 600047, 'Old Jail Road'),
('ADM_002', 'ADMIN', 'Droupadi', 'Murmu', NULL, 14-04-1990, 640012, 'High Street'),
('ADM_003', 'ADMIN', 'Manmohan', 'Singh', NULL, 08-04-1991, 575003, 'Pumpwell Road');
```

2. Calculate and update age in USER_385 table.

```
UPDATE user_385 set Age = DATE_FORMAT(FROM_DAYS(DATEDIFF(NOW(), DOB)), '%Y')  
+ 0;  
SELECT * FROM user_385;
```

3. Display all the route information whose distance falls in a range from 70 to 150 km.

```
SELECT * FROM route_info_385 WHERE Distance > 70 AND Distance < 150;
```

4. Display the train route information which are run between Chennai and Sholingur.

```
SELECT * FROM route_info_385 WHERE (From_Station_name = 'Chennai' AND  
To_Station_Name = 'Sholingur') OR (From_Station_name = 'Sholingur' AND  
To_Station_Name = 'Chennai');
```

5. Display the train details whose type is not mail.

```
SELECT * FROM `train_385` WHERE train_type != 'Mail';
```

6. Display the train name which goes to Chennai from Bangalore.

```
SELECT Name, Source, Destination FROM train_385 WHERE Source = 'Bengaluru'  
AND Destination = 'Chennai';
```

7. Display the list of trains starting from Chennai after 8:00.

```
SELECT Train_No, Departure, Arrival, Departure_Time, Arrival_Time,  
Train_Type FROM ticket_385 WHERE (Departure = 'Chennai' AND  
Departure_Time > '08:00:00');
```

8. Display the list of users who are born between 1980 to 1990.

```
SELECT * FROM user_385 WHERE DOB BETWEEN '1980-01-01' AND '1990-12-31';
```

9. Display the train users whose name starts with the letter 'S'

```
SELECT * FROM `user_385` WHERE FName LIKE 's%' OR 'S%';
```

10. Find the availability of I Class compartment of the train number 62621

```
SELECT * FROM compartment_385 WHERE Compartment_Type = 'I Class' AND  
Train_No = '62621';
```

11. Find the PNR and Transaction ID of the users who made payment via Union Bank.

```
SELECT PNR, Transaction_id FROM payment_info_385 WHERE Bank = 'Union  
Bank';
```