

DBMS Lab-4

Name: Vrushank G

SRN: PES1UG20CS516

Section: I

Task-I: Use INSERT/SELECT/UPDATE queries for the following tasks:

1. Insert the shared data into the respective tables using appropriate insert query.

- Show the usage of INSERT and LOAD DATA INFILE commands explicitly

```
MariaDB [peslug20cs516]> drop table fare;
Query OK, 0 rows affected (0.011 sec)

MariaDB [peslug20cs516]> create table fare(train_type varchar(20), compartment_type varchar(10), fare_per_km int, primary key(train_type,compartment_type));
Query OK, 0 rows affected (0.015 sec)

MariaDB [peslug20cs516]> LOAD DATA INFILE "D:/RISHI/SEM5/DBMS/PES1UG20CS516_Lab4/fare_table.csv" INTO TABLE fare
  -> COLUMNS TERMINATED BY ','
  -> OPTIONALLY ENCLOSED BY '"'
  -> ESCAPED BY '"'
  -> LINES TERMINATED BY '\n'
  -> IGNORE 1 LINES;
Query OK, 9 rows affected, 9 warnings (0.006 sec)
Records: 9 Deleted: 0 Skipped: 0 Warnings: 9
```

```
MariaDB [peslug20cs516]> select * from fare;
+-----+-----+-----+
| train_type | compartment_type | fare_per_km |
+-----+-----+-----+
| Fast      | I Class         | 3           |
| Fast      | II Class        | 2           |
| Mail      | I Class         | 2           |
| Mail      | II Class        | 1           |
| Mail      | III Class       | 1           |
| Superfast | I Class         | 3           |
| Superfast | II Class        | 2           |
| Superfast | III Class       | 1           |
+-----+-----+-----+
8 rows in set (0.000 sec)

MariaDB [peslug20cs516]> insert into fare values('Fast','III Class',2);
Query OK, 1 row affected (0.001 sec)

MariaDB [peslug20cs516]> select * from fare;
+-----+-----+-----+
| train_type | compartment_type | fare_per_km |
+-----+-----+-----+
| Fast      | I Class         | 3           |
| Fast      | II Class        | 2           |
| Fast      | III Class       | 2           |
| Mail      | I Class         | 2           |
| Mail      | II Class        | 1           |
| Mail      | III Class       | 1           |
| Superfast | I Class         | 3           |
| Superfast | II Class        | 2           |
| Superfast | III Class       | 1           |
+-----+-----+-----+
9 rows in set (0.000 sec)
```

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2. Calculate and update age attribute in User Table.

```
MariaDB [pes1ug20cs516]> select * from train_user limit 10;
```

user_id	user_type	firstname	lastname	age	dob	pincode	street_number
ADM_001	ADMIN	Narendra	Modi	33	1989-04-14	600047	Old Jail Road
ADM_002	ADMIN	Droupadi	Murmu	32	1990-04-14	640012	High Street
ADM_003	ADMIN	Manmohan	Singh	31	1991-04-08	575003	Pumpwell Road
USR_001	PSGR	Ajit	Ullal	51	1971-01-01	560001	10, Janpath
USR_002	PSGR	Muhammed	Ali	21	2000-10-09	560003	10, Downing
USR_003	PSGR	Sai Deepak	Reddy	25	1996-12-12	600001	14, Kailsh Marg
USR_004	PSGR	Rudra	Agarwal	25	1996-12-13	600042	5, Lohia Garden
USR_005	PSGR	Rahul	Khanna	24	1997-12-14	600067	1, Pink Street
USR_006	PSGR	Nirmala	Seturaman	23	1998-12-15	560105	3, Blue Avenue
USR_007	PSGR	Smriti	Irani	22	1999-12-16	575014	4, Banyan Avenue

```
10 rows in set (0.000 sec)
```

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

```
MariaDB [pes1ug20cs516]> select *from route_info where distance<150 and distance>70;
```

from_station_no	to_station_no	from_station_name	to_station_name	distance	train_no
1	2	Mangaluru	Kannur	131	25260
4	4	Palakkad	Chennai	130	25260
1	2	Chennai	Palakkad	130	25261
3	4	Kannur	Mangaluru	131	25261
3	4	Mysore	Bengaluru	139	58450
1	2	Bengaluru	Mysore	139	58451
1	2	Chennai	Sholingur	90	62620
1	3	Chennai	Katpadi	129	62620
4	5	Bangarpet	Bengaluru	71	62620
1	2	Bengaluru	Bangarpet	71	62621
3	5	Katpadi	Chennai	130	62621
4	5	Sholingur	Chennai	90	62621

```
12 rows in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select * from route_info where ((from_station_name="chennai" and to_station_name="sholingur") or (from_station_name="sholingur" and to_station_name="chennai"));
```

from_station_no	to_station_no	from_station_name	to_station_name	distance	train_no
1	2	Chennai	Sholingur	90	62620
2	5	Sholingur	Chennai	271	62620
4	5	Sholingur	Chennai	90	62621

```
3 rows in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select * from train where not train_type="mail";
```

train_no	train_name	train_type	source	destination	availability
58450	MAN-BEN Express	Fast	Mangaluru	Bengaluru	yes
58451	BEN-MAN Express	Fast	Bengaluru	Mangaluru	yes
62620	CHE-BEN Shatabdi	Superfast	Chennai	Bengaluru	No
62621	BEN-CHE Shatabdi	Superfast	Bengaluru	Chennai	yes

```
4 rows in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select train_name from train where source="bengaluru" and destination="Chennai";
```

train_name
BEN-CHE Shatabdi

```
1 row in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select train.train_no , train.train_name from train inner join ticket where ticket.train_no=train.train_no and ticket.departure="Chennai" and ticket.departure_time>"8:00";
```

train_no	train_name
25261	Managaluru Mail

```
1 row in set (0.003 sec)
```

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

```
MariaDB [pes1ug20cs516]> select *from train_user where year(dob)>1980 and year(dob)<1990;
```

user_id	user_type	firstname	lastname	age	dob	pincode	street_number
ADM_001	ADMIN	Narendra	Modi	33	1989-04-14	600047	Old Jail Road
USR_023	PSGR	Satish	Kotian	41	1981-04-14	600044	T Nagar
USR_024	PSGR	Shradha	Nayar	40	1982-04-08	560006	M G Road, Bangalore
USR_025	PSGR	Manisha	Solanki	39	1983-04-08	575030	M G Road
USR_026	PSGR	Bharti	Devgan	38	1984-04-14	560059	NAL Wind Tunnel Road
USR_027	PSGR	Roopa	Ram	37	1985-04-14	575023	Bunder Road
USR_028	PSGR	Pallavi	Ram	36	1986-04-08	560044	Lavelle Road
USR_029	PSGR	Ravi	Naik	35	1987-04-14	600045	Thiru V ka Salai
USR_030	PSGR	Virat	Murthy	34	1988-04-14	575011	Bejai New Road

```
9 rows in set (0.003 sec)
```

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

```
MariaDB [pes1ug20cs516]> select *from train_user where firstname like "S%";
```

user_id	user_type	firstname	lastname	age	dob	pincode	street_number
USR_003	PSGR	Sai Deepak	Reddy	25	1996-12-12	600001	14, Kailsh Marg
USR_007	PSGR	Smriti	Irani	22	1999-12-16	575014	4, Banyan Avenie
USR_010	PSGR	Samanta	Prabhu	54	1968-04-14	600042	8, Clone Colony
USR_016	PSGR	Subbu	Saravana	48	1974-04-14	600043	American Street
USR_017	PSGR	Sheela	Dixit	47	1975-04-08	560048	Kasturba Road
USR_021	PSGR	Suma	Sampat	43	1979-04-08	560012	Old Airport Road, Bangalore
USR_022	PSGR	Srihari	Udupa	42	1980-04-14	560015	Suranjan Das Road
USR_023	PSGR	Satish	Kotian	41	1981-04-14	600044	T Nagar
USR_024	PSGR	Shradha	Nayar	40	1982-04-08	560006	M G Road, Bangalore

```
9 rows in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select availability from compartment where compartment_type="I Class" and train_number=62621;
```

availability
6

```
1 row in set (0.001 sec)
```

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

```
MariaDB [pes1ug20cs516]> select pnr, transaction_no from payment_info where bank="Union Bank";
```

pnr	transaction_no
PNR012	243535
PNR015	758900
PNR010	867546
PNR003	978776

```
4 rows in set (0.003 sec)
```