DBMS Lab 4

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PES1UG20CS084

Task 1

1. Inserting shared data into tables:

```
MariaDB [peslug20cs084_railway_lab4]> load data infile "Compartment.csv"
    -> into table compartment
    -> columns terminated by ','
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 20 rows affected, 19 warnings (0.063 sec)
```

```
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "FareTable.csv"
    -> into table fare
    -> columns terminated by ','
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 9 rows affected, 8 warnings (0.020 sec)
```

```
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "Payment-Info.csv"
    -> into table payment_info
    -> columns terminated by ','
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 15 rows affected (0.023 sec)
```

```
MariaDB [peslug20cs084_railway_lab4]> load data infile "RouteInfo.csv"
    -> into table route_info
    -> columns terminated by ','
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 44 rows affected, 43 warnings (0.031 sec)
```

```
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "Ticket.csv"
    -> into table ticket
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 13 rows affected (0.030 sec)
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "Ticket-Passenger.csv"
   -> into table ticket_passenger
Query OK, 24 rows affected (0.062 sec)
MariaDB [pes1ug20cs084_railway_lab4] > load data infile "Train.csv"
    -> into table train
    -> columns terminated by ','
    -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 6 rows affected (0.022 sec)
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "Train_User.csv"
   -> into table train_user
   -> escaped by '"'
   -> lines terminated by '\n'
   -> ignore 1 lines;
Query OK, 1 row affected, 1 warning (0.023 sec)
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "User-Phone.csv"
    -> into table user_phone
    -> columns terminated by ','
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 66 rows affected (0.030 sec)
MariaDB [pes1ug20cs084_railway_lab4]> load data infile "Train_User.csv"
    -> into table user_train
    -> columns terminated by ','
   -> optionally enclosed by '"'
    -> escaped by '"'
    -> lines terminated by '\n'
    -> ignore 1 lines;
Query OK, 33 rows affected, 98 warnings (0.067 sec)
```

2. Calculate and update age attribute in User Table
 update train_user set age=timestampdiff(year,dob,curdate());

						pincode	street_number
	ADMIN				1989-04-14	 600047	Old Jail Road
	ADMIN				1990-04-14	640012	High Street
	ADMIN				1991-04-08	575003	Pumpwell Road
					1971-01-01	560001	10, Janpath
USR_002			Ali		2000-10-09	560003	10, Downing
					1996-12-12	600001	14, Kailsh Marg
					1996-12-13	600042	5, Lohia Garden
					1997-12-14	600067	1, Pink Street
					1998-12-15	560105	3, Blue Avenue
					1999-12-16	575014	4, Banyan Avenie
					1966-04-14	575001	6, Poes Garden
					1967-04-08	575020	7, Dhamaka street
					1968-04-14	600042	8, Clone Colony
					1969-04-14	560003	56, Brigade Road
					1970-04-08	475001	Mirza road
					1971-04-14	560009	JC Road
		Rishi			1972-04-14	600034	Anna Sali
					1973-04-14	560054	Church Street, Bangalore
					1974-04-14	600043	American Street
					1975-04-08	560048	Kasturba Road
			Alva		1976-04-14	560008	New BEL Road
					1977-04-14	600046	Mint Street
USR_020					1978-04-14	575001	KSR Road
USR_021					1979-04-08	560012	Old Airport Road, Bangalore
USR_022				42	1980-04-14	560015	Suranjan Das Road
USR_023					1981-04-14	600044	T Nagar
USR_024					1982-04-08		M G Road, Bangalore
USR_025					1983-04-08		
JSR_026							NAL Wind Tunnel Road
USR_027						575023	
USR_028							
JSR_029					1987-04-14		
							Bejai New Road

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

select * from route_info where distance between 70 and 150;

MariaDB [lab4_pes1ug	g20cs084]> select	t * from route_info	where distance be	tween 70 and	150;
+ from_station_no o	to_station_no	from_station_name	to_station_name	distance	train_n
 1		+ Mangaluru	Kannur	++ 131	 2526
0 4			Chennai	130	2526
9 1	2	Chennai	Palakkad	130	2526
3		Kannur	Mangaluru	131	2526
3		Mysore	Bengaluru	139	5845
1	2	Bengaluru	Mysore	139	5845
1 0	2	Chennai	Sholingur	90	6262
1 0		Chennai	Katpadi	129	6262
0			Bengaluru	71	6262
1			Bangarpet	71	6262
1			Channai	130	6262
1	5	Sholingur	Chennai	90	6262 "

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

select * from route_info where from_station_name="Chennai" and
to_station_name="Sholingur";

5. Display the train details whose type is not mail

select * from train where train_type != "Mail";

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

select train_name from train where source="Bengaluru" and
destination="Chennai";

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

select * from ticket where departure="Chennai" and
departure_time>cast('8:00:00' as time);

		eparture="Chennai"		;	
				compartment_type	

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

select * from train_user where dob between '1980-01-01' and '1990-12-31';

						street_number
ADM_001	ADMIN			1989-04-14	600047	Old Jail Road
ADM_002	ADMIN		32	1990-04-14	640012	High Street
USR_022			42	1980-04-14	560015	Suranjan Das Road
USR_023			41	1981-04-14	600044	T Nagar
USR_024				1982-04-08	560006	M G Road, Bangalore
USR_025				1983-04-08	575030	M G Road
USR_026		Devgan		1984-04-14	560059	NAL Wind Tunnel Road
USR_027					575023	
USR_028						
USR_029				1987-04-14		
					575011	Bejai New Road

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

select * from train_user where firstname like "S%";

```
MariaDB [lab4_peslug20cs084]> 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 | 1968-64-14 | 600042 | 8, Clone Colony |

| USR_016 | PSGR | Subbu | Saravana | 48 | 1974-04-14 | 600043 | American Street |

| USR_017 | PSGR | Sheela | Dixit | 47 | 1975-64-08 | 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 | 660015 | Suranjan Das Road |

| USR_023 | PSGR | Satish | Kotian | 41 | 1981-64-14 | 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

select availability from compartment where compartment_type="I Class" and train_number=62621;

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

select pnr, transaction_no from payment_info where bank="Union Bank";