DML - Data Manipulation Langauge

Question 1:



Question 2:

MariaDB [railways]> UPDATE USER SET age=FLOOR(DATEDIFF(NOW(), dob)/365);
Query OK, 33 rows affected (0.016 sec)
Rows matched: 33 Changed: 33 Warnings: 0

MariaDB [railways]> SEL	ECT * FROM U	SER;				
user_id user_type	fname	lname	age	dob	pincode	street_name
ADM_001 ADMIN	Narendra Droupadi	Modi Murmu	33 32	1989-04-14 1990-04-14	600047 640012	Old Jail Road High Street
ADM_003 ADMIN	Manmohan Ajit	Singh Ullal	31 51	1991-04-08 1971-01-01	575003 560001	
USR_002 PSGR	Muhammed Sai Deepak	Ali Reddy	25	2000-10-09 1996-12-12	560003	14, Kailsh Marg
USR_004 PSGR USR_005 PSGR	Rudra Rahul Nirmala	Agarwal Khanna Seturaman	25 24 23	1996-12-13 1997-12-14 1998-12-15	600042 600067 560105	5, Lohia Garden 1, Pink Street
USR_000 PSGR	Smriti	Seturaman Irani	23	1998-12-15	575014	3, Blue Avenue 4. Banvan Avenie

Question 3:

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

Question 4:

MariaDB [railways]> 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 | from_station_name | to_station_no | to_station_name | distance | train_no |

| 4 | Sholingur | 5 | Chennai | 90 | 62621 |

| 1 | Chennai | 2 | Sholingur | 90 | 62620 |

| 2 | Sholingur | 5 | Chennai | 271 | 62620 |

| 3 rows in set (0.001 sec)

Question 5:

```
MariaDB [railways]> SELECT * FROM TRAIN WHERE NOT TRAIN_TYPE="Mail";
 train_no | name
                              | train_type | source
                                                         destination | availability |
    58450 | MAN-BEN Express
                               Fast
                                             Mangaluru
                                                         Bengaluru
                                                                        ves
    58451
            BEN-MAN Express
                                Fast
                                             Bengaluru
                                                         Mangaluru
                                                                        yes
    62620 | CHE-BEN Shatabdi
                                Superfast
                                                         Bengaluru
                                             Chennai
                                                                       No
    62621 | BEN-CHE Shatabdi |
                               Superfast
                                           | Bengaluru |
                                                         Chennai
                                                                       yes
 rows in set (0.001 sec)
```

Question 6:

Question 7:

```
MariaDB [railways]> SELECT UNIQUE train_no FROM TICKET WHERE departure="Chennai" AND departure_time>"08:00:00";

| train_no |
| train_no |
| 25261 |
| train_no |
```

Question 8:

```
MariaDB [railways]> SELECT fname,lname FROM USER WHERE dob>"1980-01-01" AND dob<"1990-12-31"
 fname
            | Modi
 Narendra
 Droupadi
             Murmu
 Srihari
             Udupa
 Satish
             Kotian
 Shradha
             Nayar
 Manisha
             Solanki
 Bharti
             Devgan
 Roopa
              Ram
 Pallavi
             Ram
 Ravi
              Naik
            | Murthy
 Virat
11 rows in set (0.001 sec)
```

Question 9:

```
MariaDB [railways]> SELECT fname,lname FROM USER WHERE fname LIKE 'S%';
 fname
            | lname
 Sai Deepak | Reddy
           | Irani
 Smriti
            | Prabhu
 Samanta
 Subbu
           Saravana
 Sheela
            | Dixit
 Suma
            | Sampat
 Srihari | Udupa
           | Kotian
 Satish
 Shradha Nayar
 rows in set (0.000 sec)
```

Question10:

Question 11:

Question 12:

```
MariaDB [railways]> CREATE OR REPLACE USER 'navin'@localhost IDENTIFIED BY 'password123';
Query OK, 0 rows affected (0.009 sec)
MariaDB [railways]> ■
[15:13:10] [~] >>> mysql -u navin -h localhost -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or ackslash g .
Your MariaDB connection id is 10
Server version: 10.9.2-MariaDB Arch Linux
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> show databases;
 Database
 information_schema |
1 row in set (0.001 sec)
MariaDB [railways]> GRANT ALL PRIVILEGES ON *.* TO 'navin'@localhost IDEN<u>TIFIED BY 'password123';</u>
Query OK, O rows affected (0.008 sec)
MariaDB [railways]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)
MariaDB[railways]> 📗
[15:15:21] [~] >>> mysql -u navin -h localhost -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or ackslash g.
Your MariaDB connection id is 11
Server version: 10.9.2-MariaDB Arch Linux
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> show databases;
Database
| information_schema |
 mysql
 performance_schema |
 railways
  sys
5 rows in set (0.001 sec)
MariaDB [(none)]>
```

Question 13:

```
ariaDB [railways]> REVOKE UPDATE, DELETE ON railways.* FROM 'navin'@localhost;
uery OK, 0 rows affected (0.008 sec)
  ariaDB [railways]> FLUSH PRIVILEGES;
uery OK, 0 rows affected (0.001 sec)
  nriaDB [railways]> REVOKE ALL PRIVILEGES ON *.* FROM 'navin'@localhost IDENTIFIED BY 'password123';
RROR 1864 (42888): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near
   ialB [railways]> REVOKE ALL PRIVILEGES ON *.* FROM 'navin'@localhost;
  ariaDB [railways]> FLUSH PRIVILEGES;
uery OK, 0 rows affected (0.001 sec)
  ariaDB [railways]> REVOKE UPDATE, DELETE ON railways.* FROM 'navin'@localhost;
Jery OK, 0 rows affected (0.012 sec)
  ariaDB [railways]> FLUSH PRIVILEGES;
uery OK, 0 rows affected (0.001 sec)
[15:22:07] [~] >>> mysql -u navin -h localhost -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or ackslashg.
Your MariaDB connection id is 13
Server version: 10.9.2-MariaDB Arch Linux
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> use railways;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
MariaDB [railways]> UPDATE TRAIN SET source="123" WHERE train_type="Fast";
ERROR 1142 (42000): UPDATE command denied to user 'navin'@'localhost' for table 'TRAIN'
MariaDB[railways]> 📗
```