DBMS-LAB 4
RAILWAY RESERVATION

Name: Ishita Bharadwaj   Srn: PES1UG20CS648

Section: K   Roll no: 43

Task-1:

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

```
MariaDB [cs_pes1ug20cs648_railways]> show tables;
+-------------------------------------+
| Tables_in_cs_pes1ug20cs648_railways |
+-------------------------------------+
| compartment                         |
| fare                                |
| payment_info                        |
| route_info                          |
| ticket                              |
| ticket_passenger                    |
| train                               |
| train_user                          |
| user_phone                          |
| user_train                          |
+-------------------------------------+
10 rows in set (0.001 sec)
```

2. Calculate and update the age attribute in User Table.

```
MariaDB [cs_pes1ug20cs648_railways]> UPDATE train_user SET Age=Date_FORMAT(FROM_DAYS(DATEDIFF(now(),DOB)),'%Y')+0;
Query OK, 33 rows affected (0.014 sec)
Rows matched: 33  Changed: 33  Warnings: 0

MariaDB [cs_pes1ug20cs648_railways]> select * from train_user;
+---------+-----------+------------+-----------+------+------------+---------+--------------------------------+
| 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 Avenie               |
| USR_008 | PSGR      | Ajit       | Sethi     |   56 | 1966-04-14 | 575001  | 6, Poes Garden                 |
| USR_009 | PSGR      | Arjun      | Allu      |   55 | 1967-04-08 | 575020  | 7, Dhamaka street              |
| USR_010 | PSGR      | Samanta    | Prabhu    |   54 | 1968-04-14 | 600042  | 8, Clone Colony                |
| USR_011 | PSGR      | Kiran      | Bedi      |   53 | 1969-04-14 | 560003  | 56, Brigade Road               |
| USR_012 | PSGR      | Rahul      | Gandhi    |   52 | 1970-04-08 | 475001  | Mirza road                     |
| USR_013 | PSGR      | Rashkit    | Shetty    |   51 | 1971-04-14 | 560009  | JC Road                        |
| USR_014 | PSGR      | Rishi      | Sunak     |   50 | 1972-04-14 | 600034  | Anna Sali                      |
| USR_015 | PSGR      | Vedavalli  | Srinath   |   49 | 1973-04-14 | 560054  | Church Street, Bangalore       |
| 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_018 | PSGR      | Margaret   | Alva      |   46 | 1976-04-14 | 560008  | New BEL Road                   |
| USR_019 | PSGR      | Arun       | Kumar     |   45 | 1977-04-14 | 600046  | Mint Street                    |
| USR_020 | PSGR      | Anshu      | Bhardwaj  |   44 | 1978-04-14 | 575001  | KSR 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            |
| 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                 |
+---------+-----------+------------+-----------+------+------------+---------+--------------------------------+
33 rows in set (0.001 sec)
```

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

```
MariaDB [cs_pes1ug20cs648_railways]> select* from route_info where distance between 70 and 150;
+----------------+--------------+------------------+-----------------+----------+----------+
| 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 (0.008 sec)
```

4. Display the train route information which is run between Chennai to Sholingur

```
MariaDB [cs_pes1ug20cs648_railways]> select* from route_info where from_station_name = 'Chennai' and to_station_name= 'Sholingur';
+----------------+--------------+------------------+-----------------+----------+----------+
| from_station_no | to_station_no | from_station_name | to_station_name | distance | train_no |
+----------------+--------------+------------------+-----------------+----------+----------+
|              1 |            2 | Chennai          | Sholingur       |       90 |    62620 |
+----------------+--------------+------------------+-----------------+----------+----------+
1 row in set (0.001 sec)
```

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

```
MariaDB [cs_pes1ug20cs648_railways]> select* from train where train_type not in ('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 Bangalore.

```
MariaDB [cs_pes1ug20cs648_railways]> 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 [cs_pes1ug20cs648_railways]> select train_no from ticket where departure='Chennai' and departure_time>"8:00:00";
+----------+
| train_no |
+----------+
|    25261 |
+----------+
1 row in set (0.015 sec)
```

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

```
MariaDB [cs_pes1ug20cs648_railways]> select* from train_user where dob between ('1980-01-01') and ('1990-12-30');
+---------+-----------+-----------+----------+------+------------+---------+----------------------+
| 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          |
| 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  |
| 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       |
+---------+-----------+-----------+----------+------+------------+---------+----------------------+
11 rows in set (0.001 sec)
```

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

```
MariaDB [cs_pes1ug20cs648_railways]> 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 [cs_pes1ug20cs648_railways]> select availability from compartment where train_number=62621 and compartment_type= 'I class';
+--------------+
| availability |
+--------------+
|            6 |
+--------------+
1 row in set (0.015 sec)
```

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

```
MariaDB [cs_pes1ug20cs648_railways]> 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 (0.014 sec)
```

Task-1:

1. Grant privileges on different tables to users and observe the effect.

   Create users

```
MariaDB [cs_pes1ug20cs648_railways]> create user user1 identified by 'user1';
Query OK, 0 rows affected (0.008 sec)

MariaDB [cs_pes1ug20cs648_railways]> create user user2 identified by 'user2';
Query OK, 0 rows affected (0.012 sec)
```

   Checking if database can be accessed

```
C:\xampp\mysql\bin>mysql -u user1 -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 49
Server version: 10.4.21-MariaDB mariadb.org binary distribution

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 cs_pes1ug20cs648_railways;
ERROR 1044 (42000): Access denied for user 'user1'@'%' to database 'cs_pes1ug20cs648_railways'
MariaDB [(none)]>
```

   Granting select privilege on train table and create privilege on compartment table

```
MariaDB [cs_pes1ug20cs648_railways]> GRANT SELECT ON cs_pes1ug20cs648_railways.train TO user1;
Query OK, 0 rows affected (0.008 sec)

MariaDB [cs_pes1ug20cs648_railways]> GRANT CREATE ON cs_pes1ug20cs648_railways.compartment TO user1;
Query OK, 0 rows affected (0.001 sec)
```

   Show the grants for the particular user

```
C:\xampp\mysql\bin>mysql -u user1 -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.21-MariaDB mariadb.org binary distribution

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 grants;
+---------------------------------------------------------------------------------------------------------+
| Grants for user1@%                                                                                       |
+---------------------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `user1`@`%` IDENTIFIED BY PASSWORD '*34D3B87A652E7F0D1D371C3DBF28E291705468C4' |
| GRANT CREATE ON `cs_pes1ug20cs648_railways`.`compartment` TO `user1`@`%`                                |
| GRANT SELECT ON `cs_pes1ug20cs648_railways`.`train` TO `user1`@`%`                                      |
+---------------------------------------------------------------------------------------------------------+
3 rows in set (0.000 sec)
```

Select operation is working on train table

```
MariaDB [(none)]> use cs_pes1ug20cs648_railways;
Database changed
MariaDB [cs_pes1ug20cs648_railways]> select* from train;
+----------+-----------------+------------+-----------+-------------+--------------+
| train_no | train_name      | train_type | source    | destination | availability |
+----------+-----------------+------------+-----------+-------------+--------------+
|    25260 | Chennai Mail    | Mail       | Mangaluru | Chennai     | Yes          |
|    25261 | Managaluru Mail | Mail       | Chennai   | Mangaluru   | Yes          |
|    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          |
+----------+-----------------+------------+-----------+-------------+--------------+
6 rows in set (0.027 sec)
```

Select command does not work on compartment table

```
MariaDB [cs_pes1ug20cs648_railways]> select* from compartment;
ERROR 1142 (42000): SELECT command denied to user 'user1'@'localhost' for table 'compartment'
```

2. Revoke UPDATE & DELETE privileges on any tables and observe the effect if any deletion/updation is performed.

Granting update and delete privileges on compartment table

```
C:\xampp\mysql\bin>mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 12
Server version: 10.4.21-MariaDB mariadb.org binary distribution

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 cs_pes1ug20cs648_railways;
Database changed
MariaDB [cs_pes1ug20cs648_railways]> GRANT UPDATE,DELETE ON cs_pes1ug20cs648_railways.compartment TO user1;
Query OK, 0 rows affected (0.004 sec)
```

Show grants

```
C:\xampp\mysql\bin>mysql -u user1 -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.4.21-MariaDB mariadb.org binary distribution

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 cs_pes1ug20cs648_railways
Database changed
MariaDB [cs_pes1ug20cs648_railways]> show grants
    -> ;
+------------------------------------------------------------------------------------------+
| Grants for user1@%                                                                        |
+------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `user1`@`%` IDENTIFIED BY PASSWORD '*34D3B87A652E7F0D1D371C3DBF28E291705468C4' |
| GRANT UPDATE, DELETE, CREATE ON `cs_pes1ug20cs648_railways`.`compartment` TO `user1`@`%`  |
| GRANT SELECT ON `cs_pes1ug20cs648_railways`.`train` TO `user1`@`%`                        |
+------------------------------------------------------------------------------------------+
3 rows in set (0.000 sec)
```

Table before updation of first value

```
MariaDB [cs_pes1ug20cs648_railways]> GRANT SELECT ON cs_pes1ug20cs648_railways.compartment TO user1;
Query OK, 0 rows affected (0.002 sec)
```

```
MariaDB [cs_pes1ug20cs648_railways]> select* from compartment;
+----------------+------------------+----------+--------------+--------------+
| compartment_no | compartment_type | capacity | availability | train_number |
+----------------+------------------+----------+--------------+--------------+
| F01            | I Class          |    16    |       0      |    25260     |
| F01            | I Class          |    16    |       0      |    25261     |
| F01            | I Class          |    16    |       4      |    58450     |
| F01            | I Class          |    16    |       5      |    58451     |
| F01            | I Class          |    16    |      15      |    62620     |
| F01            | I Class          |    16    |       6      |    62621     |
| F02            | I Class          |    16    |       0      |    62620     |
| G01            | III Class        |    60    |      33      |    25261     |
| G01            | III Class        |    60    |       2      |    58450     |
| G01            | III Class        |    60    |      40      |    58451     |
| G01            | III Class        |    60    |      10      |    62621     |
| G02            | III Class        |    60    |      45      |    25261     |
| G02            | III Class        |    60    |      12      |    62621     |
| S01            | II Class         |    30    |      15      |    25260     |
| S01            | II Class         |    30    |      15      |    25261     |
| S01            | II Class         |    30    |       5      |    58450     |
| S01            | II Class         |    30    |       4      |    62621     |
| S02            | II Class         |    30    |      17      |    25260     |
| S02            | II Class         |    30    |       3      |    58450     |
| S02            | II Class         |    30    |       6      |    62621     |
+----------------+------------------+----------+--------------+--------------+
20 rows in set (0.003 sec)
```

Table after updation of value

```
MariaDB [cs_pes1ug20cs648_railways]> UPDATE compartment SET availability = 2 WHERE compartment_no= 'F01' and train_number=25260;
Query OK, 1 row affected (0.011 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [cs_pes1ug20cs648_railways]> select* from compartment;
+----------------+------------------+----------+--------------+--------------+
| compartment_no | compartment_type | capacity | availability | train_number |
+----------------+------------------+----------+--------------+--------------+
| F01            | I Class          |       16 |            2 |        25260 |
| F01            | I Class          |       16 |            0 |        25261 |
| F01            | I Class          |       16 |            4 |        58450 |
| F01            | I Class          |       16 |            5 |        58451 |
| F01            | I Class          |       16 |           15 |        62620 |
| F01            | I Class          |       16 |            6 |        62621 |
| F02            | I Class          |       16 |            0 |        62620 |
| G01            | III Class        |       60 |           33 |        25261 |
| G01            | III Class        |       60 |            2 |        58450 |
| G01            | III Class        |       60 |           40 |        58451 |
| G01            | III Class        |       60 |           10 |        62621 |
| G02            | III Class        |       60 |           45 |        25261 |
| G02            | III Class        |       60 |           12 |        62621 |
| S01            | II Class         |       30 |           15 |        25260 |
| S01            | II Class         |       30 |           15 |        25261 |
| S01            | II Class         |       30 |            5 |        58450 |
| S01            | II Class         |       30 |            4 |        62621 |
| S02            | II Class         |       30 |           17 |        25260 |
| S02            | II Class         |       30 |            3 |        58450 |
| S02            | II Class         |       30 |            6 |        62621 |
+----------------+------------------+----------+--------------+--------------+
20 rows in set (0.001 sec)
```

Revoking UPDATE and DELETE from table

```
MariaDB [cs_pes1ug20cs648_railways]> REVOKE UPDATE,DELETE ON cs_pes1ug20cs648_railways.compartment FROM user1;
Query OK, 0 rows affected (0.001 sec)
```

Show grants and UPDATE does not work

```
MariaDB [cs_pes1ug20cs648_railways]> show grants;
+----------------------------------------------------------------------------------------------------------+
| Grants for user1@%                                                                                        |
+----------------------------------------------------------------------------------------------------------+
| GRANT USAGE ON *.* TO `user1`@`%` IDENTIFIED BY PASSWORD '*34D3B87A652E7F0D1D371C3DBF28E291705468C4'     |
| GRANT SELECT, CREATE ON `cs_pes1ug20cs648_railways`.`compartment` TO `user1`@`%`                          |
| GRANT SELECT ON `cs_pes1ug20cs648_railways`.`train` TO `user1`@`%`                                        |
+----------------------------------------------------------------------------------------------------------+
3 rows in set (0.000 sec)
```

```
MariaDB [cs_pes1ug20cs648_railways]> UPDATE compartment SET availability = 2 WHERE compartment_no= 'F01' and train_number=25260;
ERROR 1142 (42000): UPDATE command denied to user 'user1'@'localhost' for table 'compartment'
```

3. Create different save points and perform some insert/update/delete operations. Observe the effect of commit & rollback operations and release any created savepoints.

Started a transaction and added savepoints and rollback and released savepoints

```
MariaDB [cs_pes1ug20cs648_railways]> start transaction;
Query OK, 0 rows affected (0.000 sec)

MariaDB [cs_pes1ug20cs648_railways]> set autocommit=0;
Query OK, 0 rows affected (0.013 sec)

MariaDB [cs_pes1ug20cs648_railways]> insert into compartment values('F05','I Class',100,100,25260);
Query OK, 1 row affected (0.018 sec)

MariaDB [cs_pes1ug20cs648_railways]> insert into compartment values('F05','II Class',200,200,25261);
Query OK, 1 row affected (0.001 sec)

MariaDB [cs_pes1ug20cs648_railways]> savepoint s1;
Query OK, 0 rows affected (0.011 sec)

MariaDB [cs_pes1ug20cs648_railways]> insert into compartment values('F06','II Class',2000,900,25261);
Query OK, 1 row affected (0.000 sec)

MariaDB [cs_pes1ug20cs648_railways]> rollback to s1;
Query OK, 0 rows affected (0.001 sec)
```

```
MariaDB [cs_pes1ug20cs648_railways]> select* from copmartment;
ERROR 1146 (42S02): Table 'cs_pes1ug20cs648_railways.copmartment' doesn't exist
MariaDB [cs_pes1ug20cs648_railways]> select* from compartment;
+----------------+------------------+----------+--------------+--------------+
| compartment_no | compartment_type | capacity | availability | train_number |
+----------------+------------------+----------+--------------+--------------+
| F01            | I Class          |       16 |            2 |        25260 |
| F01            | I Class          |       16 |            0 |        25261 |
| F01            | I Class          |       16 |            4 |        58450 |
| F01            | I Class          |       16 |            5 |        58451 |
| F01            | I Class          |       16 |           15 |        62620 |
| F01            | I Class          |       16 |            6 |        62621 |
| F02            | I Class          |       16 |            0 |        62620 |
| F05            | I Class          |      100 |          100 |        25260 |
| F05            | II Class         |      200 |          200 |        25261 |
| G01            | III Class        |       60 |           33 |        25261 |
| G01            | III Class        |       60 |            2 |        58450 |
| G01            | III Class        |       60 |           40 |        58451 |
| G01            | III Class        |       60 |           10 |        62621 |
| G02            | III Class        |       60 |           45 |        25261 |
| G02            | III Class        |       60 |           12 |        62621 |
| S01            | II Class         |       30 |           15 |        25260 |
| S01            | II Class         |       30 |           15 |        25261 |
| S01            | II Class         |       30 |            5 |        58450 |
| S01            | II Class         |       30 |            4 |        62621 |
| S02            | II Class         |       30 |           17 |        25260 |
| S02            | II Class         |       30 |            3 |        58450 |
| S02            | II Class         |       30 |            6 |        62621 |
+----------------+------------------+----------+--------------+--------------+
22 rows in set (0.000 sec)

MariaDB [cs_pes1ug20cs648_railways]> commit;
Query OK, 0 rows affected (0.011 sec)
```