

UE20CS301

DATABASE MANAGEMENT SYSTEM

LAB 4 – TASK 1 RESULTS

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ROLL NO: 22

1. Create User

```
MariaDB [(none)]> select host, user from mysql.user
-> ;
+-----+-----+
| Host      | User |
+-----+-----+
| 127.0.0.1 | root |
| ::1       | root |
| localhost | pma   |
| localhost | root  |
+-----+-----+
4 rows in set (0.022 sec)

MariaDB [(none)]> create user 'rimjhim'@'localhost' identified by '1234';
Query OK, 0 rows affected (0.010 sec)

MariaDB [(none)]> exit
Bye

C:\xampp\mysql\bin>mysql -u rimjhim -p
Enter password:
ERROR 1045 (28000): Access denied for user 'rimjhim'@'localhost' (using password: NO)

C:\xampp\mysql\bin>mysql -u rimjhim -p
Enter password: ****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 10
Server version: 10.4.24-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create database new;
ERROR 1044 (42000): Access denied for user 'rimjhim'@'localhost' to database 'new'
MariaDB [(none)]>
```

2. Grant Privileges

```
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.4.24-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> grant all privileges on railway_system.* to 'rimjhim'@'localhost';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]>
```

```
C:\xampp\mysql\bin>mysql -u rimjhim -p
Enter password: ****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 15
Server version: 10.4.24-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| railway_system          |
+-----+
2 rows in set (0.001 sec)

MariaDB [(none)]> _
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> REVOKE UPDATE, DELETE ON railway_system.* from 'rimjhim'@'localhost';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]>
```

```
MariaDB [(none)]> use railway_system;
Database changed
MariaDB [railway_system]> update train_337 set t_type='mail' where t_type='post';
ERROR 1142 (42000): UPDATE command denied to user 'rimjhim'@'localhost' for table 'train_337'
MariaDB [railway_system]>
```

3. Create different Savepoints

```

MariaDB [(none)]> use railway_system;
Database changed
MariaDB [railway_system]> set autocommit=0;
Query OK, 0 rows affected (0.004 sec)

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

MariaDB [railway_system]> update train_337 set t_type='mail' where t_type='post';
Query OK, 0 rows affected (0.028 sec)
Rows matched: 0  Changed: 0  Warnings: 0

MariaDB [railway_system]> savepoint sp1;
Query OK, 0 rows affected (0.003 sec)

MariaDB [railway_system]> select * from train_337;
+-----+-----+-----+-----+-----+-----+
| Train_No | T_Name          | T_Type   | Destination | Arrival   | Availability |
+-----+-----+-----+-----+-----+-----+
| 25260 | Chennai Mail    | Mail     | Chennai     | Mangaluru | Yes          |
| 25261 | Managaluru Mail | Mail     | Mangaluru   | Chennai   | Yes          |
| 58450 | MAN-BEN Express | Fast     | Bengaluru   | Mangaluru | yes          |
| 58451 | BEN-MAN Express | Fast     | Mangaluru   | Bengaluru | yes          |
| 62620 | CHE-BEN Shatabdi | Superfast | Bengaluru   | Chennai   | No           |
| 62621 | BEN-CHE Shatabdi | Superfast | Chennai     | Bengaluru | yes          |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)

```

ii) Rollback

```

MariaDB [railway_system]> update train_337 set t_type='post' where t_type='mail';
Query OK, 2 rows affected (0.006 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [railway_system]> select * from train_337;
+-----+-----+-----+-----+-----+-----+
| Train_No | T_Name          | T_Type | Destination | Arrival | Availability |
+-----+-----+-----+-----+-----+-----+
| 25260 | Chennai Mail    | post   | Chennai     | Mangaluru | Yes          |
| 25261 | Managaluru Mail | post   | Mangaluru   | Chennai   | Yes          |
| 58450 | MAN-BEN Express | Fast   | Bengaluru   | Mangaluru | yes          |
| 58451 | BEN-MAN Express | Fast   | Mangaluru   | Bengaluru | yes          |
| 62620 | CHE-BEN Shatabdi | Superfast | Bengaluru   | Chennai   | No           |
| 62621 | BEN-CHE Shatabdi | Superfast | Chennai     | Bengaluru | yes          |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.001 sec)

MariaDB [railway_system]> rollback to sp1;
Query OK, 0 rows affected (0.003 sec)

MariaDB [railway_system]> select * from train_337;
+-----+-----+-----+-----+-----+-----+
| Train_No | T_Name          | T_Type | Destination | Arrival | Availability |
+-----+-----+-----+-----+-----+-----+
| 25260 | Chennai Mail    | Mail   | Chennai     | Mangaluru | Yes          |
| 25261 | Managaluru Mail | Mail   | Mangaluru   | Chennai   | Yes          |
| 58450 | MAN-BEN Express | Fast   | Bengaluru   | Mangaluru | yes          |
| 58451 | BEN-MAN Express | Fast   | Mangaluru   | Bengaluru | yes          |
| 62620 | CHE-BEN Shatabdi | Superfast | Bengaluru   | Chennai   | No           |
| 62621 | BEN-CHE Shatabdi | Superfast | Chennai     | Bengaluru | yes          |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [railway_system]>

```

iii) Commit

```

MariaDB [railway_system]> update train_337 set t_type='post' where t_type='mail';
Query OK, 2 rows affected (0.002 sec)
Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [railway_system]> select * from train_337;
+-----+-----+-----+-----+-----+-----+
| Train_No | T_Name          | T_Type | Destination | Arrival | Availability |
+-----+-----+-----+-----+-----+-----+
| 25260 | Chennai Mail    | post   | Chennai     | Mangaluru | Yes          |
| 25261 | Managaluru Mail | post   | Mangaluru   | Chennai   | Yes          |
| 58450 | MAN-BEN Express | Fast   | Bengaluru   | Mangaluru | yes          |
| 58451 | BEN-MAN Express | Fast   | Mangaluru   | Bengaluru | yes          |
| 62620 | CHE-BEN Shatabdi | Superfast | Bengaluru   | Chennai   | No           |
| 62621 | BEN-CHE Shatabdi | Superfast | Chennai     | Bengaluru | yes          |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.000 sec)

MariaDB [railway_system]> commit;
Query OK, 0 rows affected (0.004 sec)

```

iv) Release

```
MariaDB [railway_system]> update compartment_337 set type = 'First Class' where type= 'I Class';
Query OK, 7 rows affected (0.005 sec)
Rows matched: 7  Changed: 7  Warnings: 0

MariaDB [railway_system]> savepoint sp1;
Query OK, 0 rows affected (0.000 sec)

MariaDB [railway_system]> release sp1;
ERROR 1064 (42000): 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 'sp1' at line 1
MariaDB [railway_system]> rollback to sp1;
Query OK, 0 rows affected (0.000 sec)

MariaDB [railway_system]>
```