

UE20CS301

Database Management System

Lab 4 – Task II Results

Name : Renita Kurian

SRN : PES1UG20CS331

Roll No. : 13

Create User:

```
MariaDB [railway_system]> create user 'u331'@'localhost' identified by '331';
Query OK, 0 rows affected (0.005 sec)

MariaDB [railway_system]> exit
Bye

C:\xampp\mysql\bin>mysql -u u331 -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 19
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 databases;
+-----+
| Database          |
+-----+
| information_schema |
+-----+
1 row in set (0.001 sec)

MariaDB [(none)]> _
```

1. 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 20
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)]> grant all privileges on railway_system.* to 'u331'@'localhost';
Query OK, 0 rows affected (0.011 sec)
```

-- railway_system database present after executing grant command

```
C:\xampp\mysql\bin>mysql -u u331 -p
Enter password: ***
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
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 databases;
+-----+
| Database          |
+-----+
| information_schema |
| railway_system    |
+-----+
2 rows in set (0.013 sec)
```

2. Revoke update and delete

```
MariaDB [(none)]> revoke UPDATE, DELETE on railway_system.* from 'u331'@'localhost';
Query OK, 0 rows affected (0.003 sec)
```

```
MariaDB [(none)]> _
```

After revoke –

```
MariaDB [railway_system]> update train_331 set t_type='mail' where t_type='post';
ERROR 1142 (42000): UPDATE command denied to user 'u331'@'localhost' for table 'train_331'
MariaDB [railway_system]>
```

3. Create different savepoints

i) Create a savepoint

```
MariaDB [railway_system]> use railway_system;
Database changed
MariaDB [railway_system]> set autocommit = 0;
Query OK, 0 rows affected (0.001 sec)

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

MariaDB [railway_system]> update train_331 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]> savepoint sp1;
Query OK, 0 rows affected (0.002 sec)

MariaDB [railway_system]> select * from train_331;
```

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)
```

ii)Rollback

```
MariaDB [railway_system]> update train_331 set t_type = 'mail' where t_type = 'post';
Query OK, 2 rows affected (0.000 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [railway_system]> select * from train_331;
```

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)

```
MariaDB [railway_system]> rollback to sp1;
Query OK, 0 rows affected (0.004 sec)
```

```
MariaDB [railway_system]> select * from train_331;
```

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)

iii) Commit

```
MariaDB [railway_system]> update train_331 set t_type = 'mail' where t_type = 'post';
Query OK, 2 rows affected (0.000 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
MariaDB [railway_system]> select * from train_331;
```

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)

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

iv) Release

```
MariaDB [railway_system]> update compartment_331 set type = 'First Class' where type = 'I Class';
Query OK, 7 rows affected (0.004 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 s
on for the right syntax to use near 'sp1' at line 1
MariaDB [railway_system]> release savepoint sp1;
Query OK, 0 rows affected (0.000 sec)

MariaDB [railway_system]> rollback to sp1;
ERROR 1305 (42000): SAVEPOINT sp1 does not exist
MariaDB [railway_system]>
```