

## DBMS Lab-4

Name: Vrushank G

SRN: PES1UG20CS516

Section: I

Task-II: Use DCL and TCL statements for the following:

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

```
MariaDB [(none)]> CREATE USER vrushank IDENTIFIED BY "123456";  
Query OK, 0 rows affected (0.007 sec)
```

```
ASUS@DESKTOP-842748Q c:\xampp  
# mysql -u vrushank -p  
Enter password: *****  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 9  
Server version: 10.4.24-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)]>
```

```
MariaDB [pes1ug20cs516]> grant INSERT on pes1ug20cs516.ticket to vrushank;  
Query OK, 0 rows affected (0.004 sec)
```

```
MariaDB [pes1ug20cs516]> insert into ticket values("PNR020", 62620, "2022-09-26","Chennai","Katpadi","8:00:00","13:00:00",  
"USR_020","Superfast","II Class","F02");  
Query OK, 1 row affected (0.042 sec)
```

```
MariaDB [(none)]> grant select,delete,update on pes1ug20cs516.fare to vrushank;  
Query OK, 0 rows affected (0.003 sec)
```

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```
MariaDB [(none)]> select * from fare;
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> use pes1ug20cs516;
Database changed
MariaDB [pes1ug20cs516]> select * from fare;
+-----+-----+-----+
| train_type | compartment_type | fare_per_km |
+-----+-----+-----+
| Fast      | I Class          | 3           |
| Fast      | II Class         | 2           |
| Fast      | III Class        | 2           |
| Mail      | I Class          | 2           |
| Mail      | II Class         | 1           |
| Mail      | III Class        | 1           |
| Superfast | I Class          | 3           |
| Superfast | II Class         | 2           |
| Superfast | III Class        | 1           |
+-----+-----+-----+
9 rows in set (0.001 sec)

MariaDB [pes1ug20cs516]> delete from fare where train_type="Superfast" and compartment_type="III Class";
Query OK, 1 row affected (0.006 sec)

MariaDB [pes1ug20cs516]> update fare set fare_per_km=4 where train_type="Superfast" and compartment_type="I Class";
Query OK, 1 row affected (0.004 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [pes1ug20cs516]> select * from fare;
+-----+-----+-----+
| train_type | compartment_type | fare_per_km |
+-----+-----+-----+
| Fast      | I Class          | 3           |
| Fast      | II Class         | 2           |
| Fast      | III Class        | 2           |
| Mail      | I Class          | 2           |
| Mail      | II Class         | 1           |
| Mail      | III Class        | 1           |
| Superfast | I Class          | 4           |
| Superfast | II Class         | 2           |
+-----+-----+-----+
8 rows in set (0.000 sec)
```

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

```
MariaDB [(none)]> revoke delete,update on table pes1ug20cs516.fare from vrushank;
Query OK, 0 rows affected (0.004 sec)
```

```
MariaDB [pes1ug20cs516]> select * from fare;
+-----+-----+-----+
| train_type | compartment_type | fare_per_km |
+-----+-----+-----+
| Fast      | I Class          | 3           |
| Fast      | II Class         | 2           |
| Fast      | III Class        | 2           |
| Mail      | I Class          | 2           |
| Mail      | II Class         | 1           |
| Mail      | III Class        | 1           |
| Superfast | I Class          | 4           |
| Superfast | II Class         | 2           |
+-----+-----+-----+
8 rows in set (0.001 sec)

MariaDB [pes1ug20cs516]> delete from fare where train_type="Superfast" and compartment_type="III Class";
ERROR 1142 (42000): DELETE command denied to user 'vrushank'@'localhost' for table 'fare'
MariaDB [pes1ug20cs516]> update fare set fare_per_km=4 where train_type="Superfast" and compartment_type="I Class";
ERROR 1142 (42000): UPDATE command denied to user 'vrushank'@'localhost' for table 'fare'
```

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

Task-2\_3.sql file:

```
START TRANSACTION;
SAVEPOINT S1;
UPDATE ticket_passenger
SET
    seat_no = "S01-29",
    name = "vrushank",
    age = 19

WHERE pnr = "PNR015";
(SELECT * FROM ticket_passenger ORDER BY pnr DESC limit 5) ORDER BY pnr ASC;

SAVEPOINT S2;

INSERT INTO ticket_passenger
VALUES
(
    "S01-30",
    "Y Srinivas",
    20,
    "PNR020"
);
(SELECT * FROM ticket_passenger ORDER BY pnr DESC limit 5) ORDER BY pnr ASC;

ROLLBACK TO S2;
(SELECT * FROM ticket_passenger ORDER BY pnr DESC limit 5) ORDER BY pnr ASC;

ROLLBACK TO S1;
(SELECT * FROM ticket_passenger ORDER BY pnr DESC limit 5) ORDER BY pnr ASC;
```

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```
MariaDB [pes1ug20cs516]> source D:/RISHI/SEM5/DBMS/PES1UG20CS516_Lab4/Task-2_3.sql
Query OK, 0 rows affected (0.000 sec)
```

```
Query OK, 0 rows affected (0.000 sec)
```

```
Query OK, 1 row affected (0.003 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

seat_no	name	age	pnr
S01-26	Rakshita Prabhu	21	PNR010
F01-7	Sheela Seth	33	PNR011
F01-13	Ramya R	45	PNR012
S01-2	Shradha Nayar	20	PNR014
S01-29	vrushank	19	PNR015

```
5 rows in set (0.000 sec)
```

```
Query OK, 0 rows affected (0.000 sec)
```

```
Query OK, 1 row affected (0.000 sec)
```

seat_no	name	age	pnr
F01-7	Sheela Seth	33	PNR011
F01-13	Ramya R	45	PNR012
S01-2	Shradha Nayar	20	PNR014
S01-29	vrushank	19	PNR015
S01-30	Y Srinivas	20	PNR020

```
5 rows in set (0.003 sec)
```

```
Query OK, 0 rows affected (0.000 sec)
```

seat_no	name	age	pnr
S01-26	Rakshita Prabhu	21	PNR010
F01-7	Sheela Seth	33	PNR011
F01-13	Ramya R	45	PNR012
S01-2	Shradha Nayar	20	PNR014
S01-29	vrushank	19	PNR015

```
5 rows in set (0.000 sec)
```

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Query OK, 0 rows affected (0.001 sec)

seat_no	name	age	pnr
S01-26	Rakshita Prabhu	21	PNR010
F01-7	Sheela Seth	33	PNR011
F01-13	Ramya R	45	PNR012
S01-2	Shradha Nayar	20	PNR014
S01-29	Khushi Jha	18	PNR015

5 rows in set (0.001 sec)

MariaDB [pes1ug20cs516]> \_