DATABASE SYSTEMS LAB

LAB TASK # 10

Submitted By

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1. Create a user, user name should be your name.

```
Umair Azad@DESKTOP-0NC5N25 c:\xampp
# mysql -u umair -p
Enter password: *******
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 48
Server version: 10.4.22-MariaDB mariadb.org binary distribution
```

2. Grants privileges to the user you created
   ● To access EMPLOYEE table (SELECT, UPDATE) from database themepark

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON umair.* TO 'umair'@'localhost';
Query OK, 0 rows affected (0.194 sec)

MariaDB [(none)]> _
```

```
MariaDB [(none)]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| test               |
| umair              |
+--------------------+
```

● To access the views (SELECT) you have created in themepark (at least 1 view).

```
MariaDB [(none)]> GRANT SELECT ON umair.employee TO 'umair'@'localhost';
Query OK, 0 rows affected (0.539 sec)
```

```
MariaDB [(none)]> USE UMAIR;
Database changed
MariaDB [UMAIR]> SELECT * FROM EMPLOYEE;
+---------+-----------+------------+-----------+------------+---------------+---------------+-----------+-----------+
| EMP_NUM | EMP_TITLE | EMP_LNAME  | EMP_FNAME | EMP_DOB    | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+---------+-----------+------------+-----------+------------+---------------+---------------+-----------+-----------+
|     100 | Ms        | Calderdale | Emma      | 1972-06-15 | 1992-03-15    | 0181          | 324-9652  | FR1001    |
|     101 | Ms        | Ricardo    | Marshel   | 1978-03-19 | 1996-04-25    | 0181          | 324-4472  | UK3452    |
|     102 | Mr        | Arshad     | Arif      | 1969-11-14 | 1990-12-20    | 7253          | 675-8993  | FR1001    |
|     103 | Ms        | Roberts    | Anne      | 1974-10-16 | 1994-08-16    | 0181          | 898-3456  | UK3452    |
|     104 | Mr        | Denver     | Enrica    | 1980-11-08 | 2001-10-20    | 7253          | 504-4434  | ZA1342    |
|     105 | Ms        | Namowa     | Mirrelle  | 1990-03-14 | 2006-11-08    | 0181          | 890-3243  | FR1001    |
|     106 | Mrs       | Smith      | Gemma     | 1968-02-12 | 1989-01-05    | 0181          | 324-7845  | ZA1342    |
+---------+-----------+------------+-----------+------------+---------------+---------------+-----------+-----------+
```

● To access full database of fb/company (which you have used in last lab)

```
MariaDB [(none)]> GRANT ALL PRIVILEGES ON fb.* TO 'umair'@'localhost';
Query OK, 0 rows affected (0.104 sec)

MariaDB [UMAIR]> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| fb                 |
| information_schema |
| test               |
| umair              |
```

● To create a database.

```
MariaDB [(none)]> GRANT CREATE ON *.* TO 'umair'@'localhost';
Query OK, 0 rows affected (0.145 sec)

MariaDB [(none)]> CREATE DATABASE FAST123;
Query OK, 1 row affected (0.041 sec)
```

3. Revoke the right to access the view you granted in exercise 2.

```
MariaDB [(none)]> REVOKE SELECT ON umair.employee FROM 'umair'@'localhost';
Query OK, 0 rows affected (0.161 sec)
```

4. Give a demonstration of commit, rollback and savepoint commands.

A. I have use database i.e Umair

● Disable the autocommit option as shown in lab manual.

```
MariaDB [UMAIR]> SET AUTOCOMMIT = 0;
Query OK, 0 rows affected (0.001 sec)
```

● Insert some data in any table, update some data in any table.

```
MariaDB [UMAIR]> INSERT INTO THEMEPARK VALUES ('FR101','FOREST','LAHORE','PK');
Query OK, 1 row affected (0.244 sec)
```

```
MariaDB [UMAIR]> UPDATE THEMEPARK SET PARK_NAME = 'DEMO' WHERE PARK_CODE = 'FR1001';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

● Now apply rollback and see the result.

```
MariaDB [UMAIR]> SELECT * FROM THEMEPARK;
+-----------+--------------+---------------+---------------+
| PARK_CODE | PARK_NAME    | PARK_CITY     | PARK_COUNTRY  |
+-----------+--------------+---------------+---------------+
|           |              |               |               |
| 123       | faiq         | skt           | pk            |
| 1234      | BFVDGY       | PESHAWAR      | PK            |
| 2000      | ASS          | JSHUS         | PK            |
| 2001      | ghiurre      | PESHAWAR      | PK            |
| 2003      | asdfe        | PESHAWAR      | PK            |
| 323pp     | jdhdjhj      | kdjkdjkd      | pk            |
| FR1001    | DEMO         | PARIS         | FR            |
| FR101     | FOREST       | LAHORE        | PK            |
| FR1ss     | asdfe        | PESHAWAR      | PK            |
| NL1202    | Efling       | NOORD         | NL            |
| Pk1001    | bagh         | Peshawar      | pa            |
| SP4533    | AdventurePort| BARCELONA     | SP            |
| SW2323    | Labyrinthe   | LAUSANNE      | SW            |
| UK2622    | MiniLand     | WINDSOR       | UK            |
| UK3452    | PleasureLand | STOKE         | UK            |
| ZA1342    | GoldTown     | JOHANNESBURG  | ZA            |
+-----------+--------------+---------------+---------------+
17 rows in set (0.001 sec)
```

```
MariaDB [UMAIR]> ROLLBACK;
Query OK, 0 rows affected (0.149 sec)

MariaDB [UMAIR]> SELECT * FROM THEMEPARK;
+-----------+--------------+---------------+---------------+
| PARK_CODE | PARK_NAME    | PARK_CITY     | PARK_COUNTRY  |
+-----------+--------------+---------------+---------------+
|           |              |               |               |
| 123       | faiq         | skt           | pk            |
| 1234      | BFVDGY       | PESHAWAR      | PK            |
| 2000      | ASS          | JSHUS         | PK            |
| 2001      | ghiurre      | PESHAWAR      | PK            |
| 2003      | asdfe        | PESHAWAR      | PK            |
| 323pp     | jdhdjhj      | kdjkdjkd      | pk            |
| FR1001    | FairyLand    | PARIS         | FR            |
| FR1ss     | asdfe        | PESHAWAR      | PK            |
| NL1202    | Efling       | NOORD         | NL            |
| Pk1001    | bagh         | Peshawar      | pa            |
| SP4533    | AdventurePort| BARCELONA     | SP            |
| SW2323    | Labyrinthe   | LAUSANNE      | SW            |
| UK2622    | MiniLand     | WINDSOR       | UK            |
| UK3452    | PleasureLand | STOKE         | UK            |
| ZA1342    | GoldTown     | JOHANNESBURG  | ZA            |
+-----------+--------------+---------------+---------------+
16 rows in set (0.001 sec)
```