



19P0012 AITZAZ TAHIR CH

DATA BASE LAB 09
SIR MUHAMMAD USMAN



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

create user "aitzaz"@"localhost" identified by "1234";

```
mysql> create user "aitzaz"@"localhost" identified by "1234";
Query OK, 0 rows affected (0.03 sec)
```

2. Grants privileges to the user you created

☐ To access tables from database themepark (at least 1).

Grant all privileges on themepark_lab.sales to "aitzaz"@"localhost";

```
mysql> Grant all privileges on themepark_lab.sales to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.03 sec)
```

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

Grant all privileges on themepark_lab.emp_worked to "aitzaz"@"localhost";

```
mysql> Grant all privileges on themepark_lab.emp_worked to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

☐ To access full database of employee (which you have used in assignment 1)

grant all privileges on employees.* to "aitzaz"@"localhost";

```
mysql> grant all privileges on employees.* to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

☐ To create a database

grant create on *.* to "aitzaz"@"localhost";

```
mysql> grant create on *.* to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

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

Revoke all privileges on themepark_lab.emp_worked from "aitzaz"@"localhost";

```
mysql> Revoke all privileges on themepark_lab.emp_worked from "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

4. Grant the insert permission on table ticket and allow him to grant this permission to other users.

grant insert on themepark_lab.ticket to "aitzaz"@"localhost";

```
mysql> grant insert on themepark_lab.ticket to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

grant grant option on themepark_lab.ticket to "aitzaz"@"localhost";

```
mysql> grant grant option on themepark_lab.ticket to "aitzaz"@"localhost";
Query OK, 0 rows affected (0.00 sec)
```

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

❑ You can use any already define database for the demonstration of TCL commands.

Using themepark database in order to demonstrate the TCL commands.

❑ Disable the autocommit option as shown in lab manual.

Set autocommit=0;

❑ Insert some data in any table, update some data in any table

```
mysql> update employee set emp_fname="BROCK" where emp_num=102;
-> ;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from employee where emp_num=102;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 102 | Mr | Arshad | BROCK | 1969-11-14 | 1990-12-20 | 7253 | 675-8993 | FR1001 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

❑ Now apply rollback and see the result

Roll back;

```
mysql> rollback;
Query OK, 0 rows affected (0.05 sec)

mysql> select * from employee where emp_num=102;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 102 | Mr | Arshad | Arif | 1969-11-14 | 1990-12-20 | 7253 | 675-8993 | FR1001 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

❑ Do some more transactions of insert, update and delete. Afterwards add a savepoint

update employee set emp_fname="Charlize" where emp_num=100;

update employee set emp_area_code=6969 where emp_num=101;

update employee set emp_lname="Theron" where emp_num=100;

update employee set emp_lname="Lesnar" where emp_num=102;

savepoint alpha;

```
mysql> update employee set emp_fname='Charlize' where emp_num=100;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set emp_area_code=6969 where emp_num=101;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set emp_lname='Theron' where emp_num=100;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set emp_lname='Lesnar' where emp_num=102;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> savepoint alpha;
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> 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	Theron	Charlize	1972-06-15	1992-03-15	0181	324-9134	FR1001
101	Ms	Ricardo	Marshall	1978-03-19	1996-04-25	6969	324-4472	UK3452
102	Mr	Lesnar	Arif	1969-11-14	1990-12-20	7253	675-8993	FR1001
103	Ms	Roberto	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	Nanawa	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

```
7 rows in set (0.00 sec)
```

❏ Insert 2 to 3 rows and then go back to previous savepoint and see the results.

update employee set emp_area_code=0000 where emp_num=100;

update employee set emp_fname="Shakeela" where emp_num=104;

update employee set emp_title="Mr" where emp_num=106;

```
mysql> update employee set emp_area_code=0000 where emp_num=100;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> update employee set emp_fname="Shakeela" where emp_num=104;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update employee set emp_title="Mr" where emp_num=106;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> 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	Theron	Charlize	1972-06-15	1992-03-15	0	324-9134	FR1001
101	Ms	Ricardo	Marshall	1978-03-19	1996-04-25	6969	324-4472	UK3452
102	Mr	Lesnar	Arif	1969-11-14	1990-12-20	7253	675-8993	FR1001
103	Ms	Roberto	Anne	1974-10-16	1994-08-16	0181	898-3456	UK3452
104	Mr	Denver	Shakeela	1980-11-08	2001-10-20	7253	504-4434	ZA1342
105	Ms	Nanawa	Mirrelle	1990-03-14	2006-11-08	0181	890-3243	FR1001
106	Mr	Smith	Gemma	1968-02-12	1989-01-05	0181	324-7845	ZA1342

```
7 rows in set (0.00 sec)
```

rollback to alpha;

```
mysql> rollback to alpha;
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
mysql>
mysql> 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	Theron	Charlize	1972-06-15	1992-03-15	0181	324-9134	FR1001
101	Ms	Ricardo	Marshall	1978-03-19	1996-04-25	6969	324-4472	UK3452
102	Mr	Theron	Arif	1969-11-14	1990-12-20	7253	675-8993	FR1001
103	Ms	Roberto	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	Nanawa	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

```
7 rows in set (0.00 sec)
```