

NAME ; IBRAR BABAR

ROLL NO. 19P-0104

BS(CS):: SECTION (4A)

DATABASE LAB 9

LAB MANUAL EXAMPLES

Create User

CREATE USER 'nutec'@'localhost' IDENTIFIED BY 'helloworld';

```
mysql> CREATE USER 'nutec'@'localhost' IDENTIFIED BY 'helloworld';  
Query OK, 0 rows affected (0.01 sec)
```

Data Control Language

Grant statement

Before grant statement, databases of nutec.

```
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
+-----+  
1 row in set (0.00 sec)
```

Grant select on themepark.employee to 'nutec'@'localhost';

```
mysql> use themepark;  
Database changed  
mysql> grant select on themepark.employee to 'nutec'@'localhost';  
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| themepark |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> use themepark;
Database changed
mysql> show tables;
+-----+
| Tables_in_themepark |
+-----+
| employee |
+-----+
1 row in set (0.00 sec)
```

Allow insertion to nutec database

Grant insert on themepark.employee to 'nutec'@'localhost';

📄 Edit 📄 Copy 🗑️ Delete localhost themepark nutec employee root@localhost 0000-00-00 00:00:00 Select,Insert

insert into employee values

(107,'MR','babar','ibrar','2000-01-23','2010-01-23','3504','336-4177','PK1011');

```
mysql> insert into employee values
-> (107,'MR','babar','ibrar','2000-01-23','2010-01-23','3504','336-4177','PK1011');
Query OK, 1 row affected (0.00 sec)
```

REVOKE Statement

The REVOKE statement removes user access rights or privileges to the database objects.

Now,

Grant all privileges and allow all type of access to nutec database.

```
mysql> GRANT ALL PRIVILEGES ON * . * TO 'nutec'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| nutec |
| performance_schema |
| sys |
| themepark |
+-----+
6 rows in set (0.00 sec)
```

LAB_TASKS

EXERCISES

Task (1)

CREATE USER 'ibrar'@'localhost' IDENTIFIED BY 'helloworld';

```
mysql> CREATE USER 'ibrar'@'localhost' IDENTIFIED BY 'helloworld';
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
+-----+
1 row in set (0.00 sec)
```

Task#2(a)

GRANT ALL PRIVILEGES ON themepark.* TO 'ibrar'@'localhost';

```
mysql> GRANT ALL PRIVILEGES ON themepark.* TO 'ibrar'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

On ibrar(user).

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| employees |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| employees |
| themepark |
+-----+
3 rows in set (0.00 sec)
```

Task#2(b)

Grant select on themepark.empfr1 to 'ibrar'@'localhost';

```
mysql> Grant select on themepark.empfr1 to 'ibrar'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

On ibrar(user)--- I can access all views that I have created in themepark database;

```
mysql> select * from empfr1;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Ms | Ricardo | Marshel | 1978-03-19 | 1996-04-25 | 0181 | 324-4472 | UK3452 |
| 103 | Ms | Roberts | Anne | 1974-10-16 | 1994-08-16 | 0181 | 898-3456 | UK3452 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.14 sec)
```

Task#2(c)

GRANT ALL PRIVILEGES ON employees.* TO 'ibrar'@'localhost';

```
mysql> GRANT ALL PRIVILEGES ON employees.* TO 'ibrar'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

-----on ibrar(user)-----

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
+-----+
1 row in set (0.00 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| employees |
+-----+
2 rows in set (0.01 sec)
```

```
mysql> use employees;
Database changed
mysql> show tables;
+-----+
| Tables_in_employees |
+-----+
| departments |
| dept_emp |
| dept_manager |
| employees |
| salaries |
| titles |
+-----+
6 rows in set (0.00 sec)
```

TASK#2(d)

Grant CREATE on *.* to 'ibrar'@'localhost';

```
mysql> grant CREATE on *.* to 'ibrar'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

-----on ibrar(user)-----

```
mysql> create database test_DB;  
Query OK, 1 row affected (0.00 sec)
```

TASK#3

revoke select on themepark.empfr1 from 'ibrar'@'localhost';

```
mysql> revoke select on themepark.empfr1 from 'ibrar'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

TASK#4

grant grant option on themepark.ticket to 'nutec'@'localhost';

```
mysql> grant grant option on themepark.ticket to 'nutec'@'localhost';  
Query OK, 0 rows affected (0.00 sec)
```

TASK#5

(A)

I can use themepark database for demonstration of TCL commands.

(B)

Set autocommit=0;

```
mysql> set autocommit=0;  
Query OK, 0 rows affected (0.04 sec)
```

(C)

Insertion into themepark table.

insert into themepark values ('ab1111','forest','Lahore','PK');

```
mysql> insert into themepark
-> values ('ab1111','forest','Lahore','PK');
Query OK, 1 row affected (0.04 sec)
```

Update query

update themepark set park_name='DEMO' where park_code='FR1001';

```
mysql> update themepark
-> set park_name='DEMO'
-> where park_code='FR1001';
Query OK, 1 row affected (0.03 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

(D)

Before applying (ROLLBACK), the data in the themepark table is....

```
mysql> select * from themepark;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| ab1111 | forest | Lahore | PK |
| FR1001 | DEMO | PARIS | FR |
| NL1202 | Efling | NOORD | NL |
| SP4533 | AdventurePort | BARCELONA | SP |
| SW2323 | Labyrinthe | LAUSANNE | SW |
| UK2622 | MiniLand | WINDSOR | UK |
| UK3452 | PleasureLand | STOKE | UK |
| ZA1342 | GoldTown | JOHANNESBURG | ZA |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

After applying (ROLLBACK), the data in the themepark table is....

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

```
mysql> select * from themepark;
```

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
FR1001	FairyLand	PARIS	FR
NL1202	Efling	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA

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

(E)

```
insert into themepark values ('ab2222','luminus','Sheikhupura','AB');
```

```
insert into themepark values ('ab333','Shimla','Attock','CD');
```

```
mysql> insert into themepark values ('ab2222','luminus','Sheikhupura','AB');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into themepark values ('ab333','Shimla','Attock','CD');  
Query OK, 1 row affected (0.00 sec)
```

```
update themepark set park_name='shalamar' where park_code='NL1202';
```

```
mysql> update themepark set park_name='shalamar' where park_code='NL1202';  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

```
delete from themepark where park_code='ab1111';
```

```
mysql> delete from themepark where park_code='ab1111';  
Query OK, 1 row affected (0.00 sec)
```

```
savepoint s1;
```



```
mysql> savepoint s1;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from themepark;
```

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222	luminus	Sheikhupura	AB
ab333	Shimla	Attock	CD
FR1001	FairyLand	PARIS	FR
NL1202	shalamar	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA

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

(F)

insert into themepark values ('ab4444','minipark','Karachi','DD');

insert into themepark values ('ab5555','forest','Islamabad','EE');

```
mysql> insert into themepark values ('ab4444','minipark','Karachi','DD');
Query OK, 1 row affected (0.00 sec)

mysql> insert into themepark values ('ab5555','forest','Islamabad','EE');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from themepark;
```

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222	luminus	Sheikhupura	AB
ab333	Shimla	Attock	CD
ab4444	minipark	Karachi	DD
ab5555	forest	Islamabad	EE
FR1001	FairyLand	PARIS	FR
NL1202	shalamar	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA

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

Now apply rollback to savepoint.

Rollback to s1;

```
mysql> select * from themepark;
```

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222	luminus	Sheikhupura	AB
ab333	Shimla	Attock	CD
ab4444	minipark	Karachi	DD
ab5555	forest	Islamabad	EE
FR1001	FairyLand	PARIS	FR
NL1202	shalamar	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA

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

```
mysql> rollback to s1;
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> select * from themepark;
```

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222	luminus	Sheikhupura	AB
ab333	Shimla	Attock	CD
FR1001	FairyLand	PARIS	FR
NL1202	shalamar	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA

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

BONUS TASK(1)

<?php

echo "<table border =\"1\" style='border-collapse: collapse'>";

for (\$row=1; \$row <= 10; \$row++)

{

echo "<tr> \n";

for (\$col=1; \$col <= 10; \$col++)

```

{
    $p = $row / $col ;
    $number = sprintf('%.2f', $p);

    if ($number == 1)
    {
        echo "<td>$number. NP </td> \n";
    }

    for ($i = 1; $i <= $number; $i++)
    {
        if ($number % $i == 1)
        {
            echo "<td>$number. P </td> \n";
        }
        else
        {
            echo "<td>$number. NP </td> \n";
        }
    }

    echo "</tr>";

    echo "</table>";
?>

```

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| | | | | | | | | | |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.00. NP | 0.50. NP | 0.33. NP | 0.25. NP | 0.20. NP | 0.17. NP | 0.14. NP | 0.12. NP | 0.11. NP | 0.10. NP |
| 2.00. P | 1.00. NP | 0.67. NP | 0.50. NP | 0.40. NP | 0.33. NP | 0.29. NP | 0.25. NP | 0.22. NP | 0.20. NP |
| 3.00. P | 1.50. NP | 1.00. NP | 0.75. NP | 0.60. NP | 0.50. NP | 0.43. NP | 0.38. NP | 0.33. NP | 0.30. NP |
| 4.00. NP | 2.00. P | 1.33. NP | 1.00. NP | 0.80. NP | 0.67. NP | 0.57. NP | 0.50. NP | 0.44. NP | 0.40. NP |
| 5.00. P | 2.50. NP | 1.67. NP | 1.25. NP | 1.00. NP | 0.83. NP | 0.71. NP | 0.62. NP | 0.56. NP | 0.50. NP |
| 6.00. NP | 3.00. P | 2.00. P | 1.50. NP | 1.20. NP | 1.00. NP | 0.86. NP | 0.75. NP | 0.67. NP | 0.60. NP |
| 7.00. P | 3.50. NP | 2.33. NP | 1.75. NP | 1.40. NP | 1.17. NP | 1.00. NP | 0.88. NP | 0.78. NP | 0.70. NP |
| 8.00. NP | 4.00. NP | 2.67. NP | 2.00. P | 1.60. NP | 1.33. NP | 1.14. NP | 1.00. NP | 0.89. NP | 0.80. NP |
| 9.00. NP | 4.50. NP | 3.00. P | 2.25. NP | 1.80. NP | 1.50. NP | 1.29. NP | 1.12. NP | 1.00. NP | 0.90. NP |
| 10.00. NP | 5.00. P | 3.33. NP | 2.50. NP | 2.00. P | 1.67. NP | 1.43. NP | 1.25. NP | 1.11. NP | 1.00. NP |

BONUS TASK(2)

```
<?php
$input='Burch Jr, Philip H., The American establishment, Research in political economy 6(1983), 83-156';
$myArr= (explode(",",$input));
print_r($myArr);
?>
```

```
Array
(
    [0] => Burch Jr
    [1] => Philip H.
    [2] => The American establishment
    [3] => Research in political economy 6(1983)
    [4] => 83-156
)
```
