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section:A

Q:1 The Theme Park managers want to create a view called EMP\_DETAILS which contains the following information. EMP\_NO, PARK\_CODE, PARK\_NAME, EMP\_LNAME, EMP\_FNAME, EMP\_HIRE\_DATE and EMP\_DOB. The view should only be read only.

Query:

```
create DEFINER = CURRENT_USER SQL SECURITY DEFINER view emp_details as select  
emp_num,employee.park_code, emp_lname,  
emp_fname,emp_hire_date,emp_dob,themepark.park_name from employee,themepark where  
themepark.park_code = employee.park_code;
```

```
MariaDB [themepark]> create DEFINER = CURRENT_USER SQL SECURITY DEFINER view emp_details as select  
    emp_num,employee.park_code, emp_lname, emp_fname,emp_hire_date,emp_dob,themepark.park_name fr  
om employee,themepark where themepark.park_code = employee.park_code;  
Query OK, 0 rows affected (0.010 sec)
```

```
MariaDB [themepark]> select* from emp_details;
```

emp_num	park_code	emp_lname	emp_fname	emp_hire_date	emp_dob	park_name
100	FR1001	Calderdale	Emma	1992-03-15	1972-06-15	FairyLand
101	UK3452	Ricardo	Marshel	1996-04-25	1978-03-19	PleasureLand
102	FR1001	Arshad	Arif	1990-12-20	1969-11-14	FairyLand
103	UK3452	Roberts	Anne	1994-08-16	1974-10-16	PleasureLand
104	ZA1342	Denver	Enrica	2001-10-20	1980-11-08	GoldTown
105	FR1001	Namowa	Mirrelle	2006-11-08	1990-03-14	FairyLand
106	ZA1342	Smith	Gemma	1989-01-05	1968-02-12	GoldTown

```
7 rows in set (0.009 sec)
```

Q:2 Check that the view works, by displaying its contents.

Query:

select\* from emp\_details;

```
MariaDB [themepark]> select* from emp_details;
```

emp_num	park_code	emp_lname	emp_fname	emp_hire_date	emp_dob	park_name
100	FR1001	Calderdale	Emma	1992-03-15	1972-06-15	FairyLand
101	UK3452	Ricardo	Marshel	1996-04-25	1978-03-19	PleasureLand
102	FR1001	Arshad	Arif	1990-12-20	1969-11-14	FairyLand
103	UK3452	Roberts	Anne	1994-08-16	1974-10-16	PleasureLand
104	ZA1342	Denver	Enrica	2001-10-20	1980-11-08	GoldTown
105	FR1001	Namowa	Mirrelle	2006-11-08	1990-03-14	FairyLand
106	ZA1342	Smith	Gemma	1989-01-05	1968-02-12	GoldTown

```
7 rows in set (0.009 sec)
```

Q:3 Using your view EMP\_DETAILS, write a query that displays all employee first and last names and the park names.

Query:

select emp\_lname,emp\_fname,themepark.park\_name from emp\_details,themepark where emp\_details.park\_code=themepark.park\_code;

```
MariaDB [themepark]> select emp_lname,emp_fname,themepark.park_name from emp_details,themepark where emp_details.park_code=themepark.park_code;
```

emp_lname	emp_fname	park_name
Calderdale	Emma	FairyLand
Ricardo	Marshel	PleasureLand
Arshad	Arif	FairyLand
Roberts	Anne	PleasureLand
Denver	Enrica	GoldTown
Namowa	Mirrelle	FairyLand
Smith	Gemma	GoldTown

```
7 rows in set (0.006 sec)
```

Q:4 Create a user , user name should be your name

Query:

CREATE USER 'ayesha'@'host' IDENTIFIED BY 'ayesha';

```
MariaDB [(none)]> use themepark;
Database changed
MariaDB [themepark]> create user 'ayesha'@localhost IDENTIFIED by 'ayesha';
Query OK, 0 rows affected (0.003 sec)

MariaDB [themepark]> exit
Bye

TTN\OGTY131A@DESKTOP-6C8MDLM C:\xampp
```

```

ITNLOGIX131A@DESKTOP-6C8MDLM c:\xampp
# mysql.exe -u ayesha -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 119
Server version: 10.4.11-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)]> use themepark;
Database changed

```

Q:5 Grants privileges to the user you created  
 To access tables from database themepark (at least 1).  
 To access the views have created (at least 1 view)  
 To create a database

Showing all grants first

```

MariaDB [(none)]> show grants for ayesha@localhost;
+-----+
| Grants for ayesha@localhost |
+-----+
| GRANT CREATE ON *.* TO 'ayesha'@'localhost' IDENTIFIED BY PASSWORD '*3C1943C0227E265B865AB0C328B7110AC90D602E' |
+-----+
1 row in set (0.005 sec)

```

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

```

MariaDB [themepark]> GRANT select on themepark.themepark to ayesha@localhost;
Query OK, 0 rows affected (0.003 sec)

```

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

```
MariaDB [themepark]> GRANT select on themepark.emp_details to ayesha@localhost;  
Query OK, 0 rows affected (0.003 sec)
```

showing all grants updated

```
MariaDB [themepark]> show grants for ayesha@localhost;  
+-----+  
| Grants for ayesha@localhost  
|  
+-----+  
+-----+  
| GRANT SELECT, CREATE ON *.* TO 'ayesha'@'localhost' IDENTIFIED BY PASSWORD '*3C1943C0227E265B865AB0C328B7110AC90D602E'  
|  
| GRANT SELECT ON `themepark`.`themepark` TO 'ayesha'@'localhost'  
|  
| GRANT SELECT ON `themepark`.`emp_details` TO 'ayesha'@'localhost'  
|  
+-----+  
+-----+  
3 rows in set (0.000 sec)
```

3) To create a database

```
MariaDB [(none)]> grant create on *.* to ayesha@localhost;  
Query OK, 0 rows affected (0.008 sec)  
  
MariaDB [(none)]> show grants for ayesha@localhost;  
+-----+  
| Grants for ayesha@localhost  
|  
+-----+  
+-----+  
| GRANT SELECT, CREATE ON *.* TO 'ayesha'@'localhost' IDENTIFIED BY PASSWORD '*3C1943C0227E265B865AB0C328B7110AC90D602E'  
|  
| GRANT SELECT ON `themepark`.`themepark` TO 'ayesha'@'localhost'  
|  
| GRANT SELECT ON `themepark`.`emp_details` TO 'ayesha'@'localhost'  
|  
+-----+  
+-----+  
3 rows in set (0.002 sec)  
  
MariaDB [(none)]>
```

now after changing the root to ayesha this will successful create a database

```

ITNLOGIX131A@DESKTOP-6C8MDLM c:\xampp
# mysql.exe -u ayesha -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 144
Server version: 10.4.11-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)]> create database hhhhh;
Query OK, 1 row affected (0.004 sec)

MariaDB [(none)]>

```

Q:6 To insert the data in the view you have created and see the output by running select \* from the view and select \* from the table you have created view from.

Query :

create view emp\_values as  
select\*  
from hours;

```

MariaDB [themepark]> create view emp_values as
-> select*
-> from hours;
Query OK, 0 rows affected (0.013 sec)

MariaDB [themepark]> select* from hours;
+-----+-----+-----+-----+-----+
| EMP_NUM | ATTRACT_NO | HOURS_PER_ATTRACT | HOUR_RATE | DATE_WORKED |
+-----+-----+-----+-----+-----+
| 100 | 10034 | 6 | 6.50 | 2007-05-18 |
| 100 | 10034 | 6 | 6.50 | 2007-05-20 |
| 101 | 10034 | 6 | 6.50 | 2007-05-18 |
| 102 | 30012 | 3 | 5.99 | 2007-05-23 |
| 102 | 30044 | 6 | 5.99 | 2007-05-21 |
| 102 | 30044 | 3 | 5.99 | 2007-05-22 |
| 104 | 30011 | 6 | 7.20 | 2007-05-21 |
| 104 | 30012 | 6 | 7.20 | 2007-05-22 |
| 105 | 10078 | 3 | 8.50 | 2007-05-18 |
| 105 | 10098 | 3 | 8.50 | 2007-05-18 |
| 105 | 10098 | 6 | 8.50 | 2007-05-19 |
+-----+-----+-----+-----+-----+
11 rows in set (0.001 sec)

MariaDB [themepark]> INSERT INTO emp_values
-> select 106,10098,3,6.50,'2007-02-18'
-> ;
Query OK, 1 row affected (0.006 sec)
Records: 1 Duplicates: 0 Warnings: 0

MariaDB [themepark]> select* from hours;
+-----+-----+-----+-----+-----+
| EMP_NUM | ATTRACT_NO | HOURS_PER_ATTRACT | HOUR_RATE | DATE_WORKED |
+-----+-----+-----+-----+-----+
| 100 | 10034 | 6 | 6.50 | 2007-05-18 |
| 100 | 10034 | 6 | 6.50 | 2007-05-20 |
| 101 | 10034 | 6 | 6.50 | 2007-05-18 |
| 102 | 30012 | 3 | 5.99 | 2007-05-23 |
| 102 | 30044 | 6 | 5.99 | 2007-05-21 |
| 102 | 30044 | 3 | 5.99 | 2007-05-22 |
| 104 | 30011 | 6 | 7.20 | 2007-05-21 |
| 104 | 30012 | 6 | 7.20 | 2007-05-22 |
| 105 | 10078 | 3 | 8.50 | 2007-05-18 |
| 105 | 10098 | 3 | 8.50 | 2007-05-18 |
| 105 | 10098 | 6 | 8.50 | 2007-05-19 |
| 106 | 10098 | 3 | 6.50 | 2007-02-18 |
+-----+-----+-----+-----+-----+
12 rows in set (0.000 sec)

```

```
INSERT INTO emp_values  
select 106,10098,3,6.50,'2007-02-18'
```

```
select* from hours;  
select* from emp_values;
```

```
MariaDB [themepark]> select* from hours;
```

EMP_NUM	ATTRACT_NO	HOURS_PER_ATTRACT	HOUR_RATE	DATE_WORKED
100	10034	6	6.50	2007-05-18
100	10034	6	6.50	2007-05-20
101	10034	6	6.50	2007-05-18
102	30012	3	5.99	2007-05-23
102	30044	6	5.99	2007-05-21
102	30044	3	5.99	2007-05-22
104	30011	6	7.20	2007-05-21
104	30012	6	7.20	2007-05-22
105	10078	3	8.50	2007-05-18
105	10098	3	8.50	2007-05-18
105	10098	6	8.50	2007-05-19
106	10098	3	6.50	2007-02-18

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

```
MariaDB [themepark]> select* from emp_values;
```

EMP_NUM	ATTRACT_NO	HOURS_PER_ATTRACT	HOUR_RATE	DATE_WORKED
100	10034	6	6.50	2007-05-18
100	10034	6	6.50	2007-05-20
101	10034	6	6.50	2007-05-18
102	30012	3	5.99	2007-05-23
102	30044	6	5.99	2007-05-21
102	30044	3	5.99	2007-05-22
104	30011	6	7.20	2007-05-21
104	30012	6	7.20	2007-05-22
105	10078	3	8.50	2007-05-18
105	10098	3	8.50	2007-05-18
105	10098	6	8.50	2007-05-19
106	10098	3	6.50	2007-02-18

```
12 rows in set (0.001 sec)
```

```
MariaDB [themepark]>
```

Q:7 Revoke the right to create database from the user you created.

Query:

revoke create on \*.\* from [ayesha@localhost](#);

```
ITNLOGIX131A@DESKTOP-6C8MDLM c:\xampp
# mysql.exe -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 145
Server version: 10.4.11-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 grants for ayesha@localhost;
+-----+
| Grants for ayesha@localhost |
+-----+
| GRANT SELECT, CREATE ON *.* TO 'ayesha'@'localhost' IDENTIFIED BY PASSWORD '*3C1943C0227E265B865AB0C328B7110AC90D602E' |
| GRANT SELECT ON `themepark`.`themepark` TO 'ayesha'@'localhost' |
| GRANT SELECT ON `themepark`.`emp_details` TO 'ayesha'@'localhost' |
+-----+
3 rows in set (0.000 sec)

MariaDB [(none)]> revoke create on *.* from ayesha@localhost;
Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]> exit
Bye
```

when we shift from root to ayesha it will give us “Access Denied”

create database ayesssha;

```
ITNLOGIX131A@DESKTOP-6C8MDLM c:\xampp
# mysql.exe -u ayesha -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 147
Server version: 10.4.11-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)]> create database ayesssha;
ERROR 1044 (42000): Access denied for user 'ayesha'@'localhost' to database 'ayesssha'
MariaDB [(none)]>
```