Exinoia Implementation of Och Commands Nithishkumarik

18 0666

To Create and manage user groups and their area right by asing occ Commands and do test the data Integrity using ordelete ascode

Tool description

My sql worksheet delivers virtual fool for Creating. executing and optimizing sql queries . It provides data modeling sel development and Comprehensive user, adminstration backup and much more.

Coorking steps

- 1. Test data intogrity and Consistency
 - 1.1) Create a schema hamed experiements
 - 1-2) Create a fable patients with potential ld as primony ko
 - 1.3) Create a table Patient-diagonosis with pateiend-id as teregin key.
 - 1.4) NOW, bill darble also get deleted outernatively.

2. DCL Commercis

- 2.1) Create a user with password
- 2.2) user, will get all previllages to database
- 23) User 2 will only allow to use Select Command
- 24) asor 3 will get all privillages arel the solent command cuas revoked from Het.

```
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ELCOT>cd..

C:\Users>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 20
Server version: 10.4.13-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.
```

Creating database:

```
MariaDB [mysql]> create database userlogin;
Query OK, 1 row affected (0.046 sec)

MariaDB [mysql]> use usserlogin;
ERROR 1049 (42000): Unknown database 'usserlogin'
MariaDB [mysql]> use userlogin;
Database changed

MariaDB [userlogin]> create table patient(pat_id int, pname varchar(30), age int);
Query OK, 0 rows affected (0.381 sec)

MariaDB [userlogin]> alter table patient add constraint p1 primary key(pat_id);
Query OK, 0 rows affected, 1 warning (2.694 sec)
Records: 0 Duplicates: 0 Warnings: 1

MariaDB [userlogin]> alter table patient modify age int not null;
Query OK, 0 rows affected (1.763 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [userlogin]> insert into patient(pat_id,pname,age) values(101,'arun',20),(102,'gomz',20),(103,'nithish',19);
Query OK, 3 rows affected (0.456 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
MariaDB [userlogin]> desc patient;
  Field | Type
                          | Null | Key | Default | Extra |
  pat_id |
            int(11)
                            NO
                                    PRT
                                           NULL
  pname
             varchar(30)
                                           NULL
  age
            int(11)
                            NO
                                           NULL
3 rows in set (0.511 sec)
MariaDB [userlogin]> select * from patient;
  pat id | pname
                      age
      101
                         20
            arun
      102
            gomz
                         20
      103
            nithish
                         19
3 rows in set (0.001 sec)
MariaDB [userlogin]> create table patient_diagnosis(diagno int,disease varchar(40),pat_id int,f
oreign key(pat_id) references patient(pat_id) on delete cascade);
Query OK, 0 rows affected (7.752 sec)
MariaDB [userlogin]> insert into patient_diagnosis(diagno,disease,pat_id) values (1,'fever',101
),(2,'cold',102),(3,'Asthma',103);
Query OK, 3 rows affected (0.358 sec)
```

```
MariaDB [userlogin]> select * from patient_diagnosis;
 diagno | disease | pat_id |
       1
           fever
                        101
           cold
                        102
          Asthma
                        103
3 rows in set (0.001 sec)
MariaDB [userlogin]> delete from patient where pat_id = 101;
Query OK, 1 row affected (0.330 sec)
MariaDB [userlogin]> select * from patient;
 pat id | pname
                   age
     102
           gomz
                      20
     103
           nithish
                      19
 rows in set (0.001 sec)
```

```
MariaDB [userlogin]> select * from patient_diagnosis;
  diagno | disease | pat_id |
        2 | cold |
3 | Asthma |
                             102
                             103
                                                                                                2 rows in set (0.001 sec)
MariaDB [userlogin]> create table bill(billno int, amount int, pat_id int, foreign key(pat_id)
references patient(pat_id) on delete set null);
Query OK, 0 rows affected (0.261 sec)
MariaDB [userlogin]> insert into bill(billno,amount,pat_id) values(123,50,102),(124,100,103);
Query OK, 2 rows affected (0.065 sec)
Records: 2 Duplicates: 0 Warnings: 0
MariaDB [userlogin]> delete from patient where pat_id = 102;
Query OK, 1 row affected (0.085 sec)
MariaDB [userlogin]> select * from bill;
  billno | amount | pat_id |
                 50 |
100 |
      123
                        103
      124
2 rows in set (0.001 sec)
```

User1:

User 2:

User 3:

User1 (grant all privileges on userlogin):

```
MariaDB [userlogin]> exit
Bye
C:\Users>mysql -u user1 -p
Enter password: ****
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 38
Server version: 10.4.13-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 userlogin
Database changed
MariaDB [userlogin]> select * from patient;
 pat_id | pname
                   age |
    103 | nithish | 19 |
1 row in set (0.038 sec)
```

User2 (grant select on userlogin, so create command was dined):

```
C:\Users>mysql -u user2 -p
Enter password: *****
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 39
Server version: 10.4.13-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 userlogin
Database changed
MariaDB [userlogin]> create table t(id int);
ERROR 1142 (42000): CREATE command denied to user 'user2'@'localhost' for table 't'
MariaDB [userlogin]>
```

User3 (revoke select on userlogin.* from'user3'@'localhost';):

```
C:\Users>mysql -u user3 -p
Enter password: *****
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 44
Server version: 10.4.13-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 userlogin
Database changed
MariaDB [userlogin]> select * from bill;
ERROR 1142 (42000): SELECT command denied to user 'user3'@'localhost' for table 'bill'
MariaDB [userlogin]>
```

Result:

Thus, the DCL commands are performed and get the output and verified.