

BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF MASTER OF COMPUTER APPLICATION

CLASS: F.Y. MCA SEM: I

COURSE CODE: MC504 SUBJECT NAME: DATABASE MANAGEMENT SYSTEM LAB

ROLL NO. : <u>2022510034</u> BATCH: <u>B</u>

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EXPERIMENT NO: 04

EXPERIMENT TITLE: To study Data Control Language and Transaction Control Language statements

DCL commands:

• GRANT Command

• REVOKE Command

TCL commands:

- COMMIT Command
- ROLLBACK Command
- SAVEPOINT Command

1. GRANT Command:-

The GRANT command allow users access privileges to the database

Syntax:-

GRANT privileges_names ON object TO user

2. REVOKE Command:-

The REVOKE Command withdraw users access privileges given by using the GRANT command

Syntax:-

REVOKE privileges ON object FROM user

3. COMMIT

Commit command is to commit Transaction after insert or delete in the database.

Syntax:-

Commit;

4. ROLLBACK

Rollback command is to rollback a transaction in case of any error occurs

Syntax:-

Rollback;

5. SAVEPOINT

The SAVEPOINT command in TCL is basically used to temporarily save a transaction so that we can roll back to that point (saved point) whenever required.

Syntax:-

SAVEPOINT savepoint name;

Outputs:

GRANT Command

```
C:\WINDOWS\system32\cmd.€ × № Windows PowerShell
 PS C:\Users\Rishi> mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 22
Server version: 8.0.31 MySQL Community Server - GPL
 Copyright (c) 2000, 2022, Oracle and/or its affiliates
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective % \left( 1\right) =\left\{ 1\right\} =\left\{
 owners.
 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
mysql> create user host@localhost identified by 'host';
Query OK, 0 rows affected (0.06 sec)
     mysql> show grants for host@localhost;
   | Grants for host@localhost
 GRANT USAGE ON *.* TO 'host'@'localhost'
 1 row in set (0.01 sec)
mysql> grant all privileges on fymca.* to host@localhost; Query OK, 0 rows affected (0.01 sec)
 mysql> show grants for host@localhost;
            Grants for host@localhost
            GRANT USAGE ON *.* TO `host`@`localhost`
GRANT ALL PRIVILEGES ON `fymca`.* TO `host`@`localhost`
 2 rows in set (0.00 sec)
 mysql>
```

REVOKE Command

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Rishi> mysql -u root -p
Enter password: ****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.31 MySQL Community Server - GPL
Copyright (c) 2000, 2022, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show grants for host@localhost;
 | Grants for host@localhost
  GRANT USAGE ON *.* TO `host`@`localhost`
GRANT ALL PRIVILEGES ON `fymca`.* TO `host`@`localhost`
2 rows in set (0.00 sec)
<code>mysql></code> revoke all privileges on fymca.* from host@localhost; Query OK, 0 rows affected (0.01 sec)
mysql> show grants for host@localhost;
  Grants for host@localhost
  GRANT USAGE ON *.* TO 'host'@'localhost'
1 row in set (0.00 sec)
 mysql>
```

COMMIT & ROLLBACK Commands



SAVEPOINT Command



