**DCL**

-- defFult database where all users information is stored

show databases;

-- selecting mysql database

use mysql;

-- showing all tables present isnide mysql database

show tables;

-- using user table

select \* from user; -- \* means all columns in user table

select User from user; -- here User is column name present inside user table

-- creating our own users

create user 'tom'@'localhost' identified by 'tom@123';

select User from user;

create user 'jerry'@'localhost' identified by 'jerry@123';

select User from user;

-- check current user

select current\_user();

select user();

-- checking permission for perticular user

show grants for 'root'@'localhost';

show grants for 'tom'@'localhost';

show grants for 'jerry'@'localhost';

-- giving permissions to users

-- GRANT permission\_name(s) ON DATABASE\_NAME.TABLE\_NAME TO user\_name

use students;

show tables;

select \* from book;

use mysql;

-- one permission on one table at a time

GRANT insert ON students.book TO 'tom'@'localhost';

show grants for 'tom'@'localhost';

-- multiple permissions on one table at a time

GRANT select,update ON students.book TO 'tom'@'localhost';

show grants for 'tom'@'localhost';

-- all permissions on one table at a time

GRANT all ON students.book TO 'tom'@'localhost';

show grants for 'tom'@'localhost';

-- all permissions on all tables at a time

GRANT all ON students.\* TO 'tom'@'localhost';

show grants for 'tom'@'localhost';

-- all permissions on all databases and all tables at a time

GRANT all ON \*.\* TO 'tom'@'localhost';

show grants for 'tom'@'localhost';

-- removing permissions

grant insert,update,delete on students.book to 'jerry'@'localhost';

show grants for 'jerry'@'localhost';

revoke insert on students.book from 'jerry'@'localhost';

show grants for 'jerry'@'localhost';