**5.MySQL User management**

Security - User Management

Create users - Granting Permissions

create user 'janu'@'localhost' identified by 'pwd123';

create user 'sarath'@'%' identified by 'pwd123';

create user 'sridevi'@'192.168.%' identified by 'pwd123';

create user 'repluser'@'192.168.56.120' identified by 'pwd123';

grant all privileges on \*.\* to 'janu'@'localhost';

Select user,host from mysql.user;

Grant all privileges on databasename.objectname to 'janu'@'localhost' with grant option;

Grant all privileges on databasename.objectname to 'janu'@'localhost' ;

Flush privileges;

ALL PRIVILEGES - It allows user to access all databases

CREATE - allows them to create tables or databases

DROP - allows them to delete tables or databases

DELETE - allows to delete rows in a table

INSERT - allows to insert rows in a table

SELECT - allows them to use SELECT statement to read through all databases in mysql server

UPDATE - allows to insert rows in a table

GRANT OPTION - allows them to grant or remove the other user privileges

--- only particular user can see

SHOW GRANTS;

SHOW GRANTS FOR 'sarath'@'%';

create user 'rama'@'%' identified by 'pwd123';

Grant select on demo.\* to 'rama'@'%';

GRANT DELETE,UPDATE,INSERT,ALTER on dbacentre.\* to 'rama'@'%';

GRANT CREATE on dbacentre.\* to 'rama'@'%';

GRANT ALTER,DROP on dbacentre.\* to 'rama'@'%';

GRANT SHUTDOWN,PROCESS on \*.\* to 'sarath'@'%';

GRANT ALL PRIVILEGES ON webapps.emp to 'rama'@'%';

GRANT ALL PRIVILEGES ON SAKILA.\* to 'scott'@'localhost';

GRANT CREATE to 'janu'@'localhost';

GRANT SELECT,INSERT,UPDATE,ALTER,CREATE ON devdb.\* TO janu@'localhost';

select \* from mysql.user \G;

Global privileges apply to all databases on a MySQL server.

These privileges are stored in the mysql.user table.

You use the GRANT privilege\_list ON \*.\* and REVOKE

privilege\_list ON \*.\* statements to grant and revoke only global level privileges.

The following example will grant all privileges (except the GRANT PRIVILEGES privilege) to the

’ops’@’192.168.%’ user.

These privileges apply for all databases on the server:

CREATE USER 'ops'@'192.168.%' IDENTIFIED BY 'ops123';

CREATE USER 'opsuser'@'localhost' IDENTIFIED BY 'ops123';

CREATE USER 'devops'@'%' IDENTIFIED BY 'dev123';

CREATE USER 'appuser'@'192.168.%' IDENTIFIED BY 'app123';

CREATE USER 'dotnetapp'@'%' IDENTIFIED BY 'app123';

GRANT RELOAD,SHUTDOWN ON \*.\* TO 'opsuser'@'localhost';

GRANT RELOAD, SHUTDOWN, SHOW DATABASES, SUPER, EVENT ON \*.\* TO 'sarath'@'%'

/\*The next example will grant only SELECT, INSERT, UPDATE, and DELETE privileges to the user

’ops’@’192.168.%’ on all databases on the server:

\*/

GRANT SELECT, INSERT, UPDATE, DELETE ON \*.\* TO ’ops’@’192.168.%’;

CREATE USER 'ramya'@'%' IDENTIFIED BY 'pwd123';

grant all privileges on \*.\* to 'ramya'@'%' with grant option;

-----This work in 5.5 Version

SELECT USER, HOST, PASSWORD FROM mysql.user WHERE USER='tom';

---- This work in 5.7 Version

SELECT USER, HOST, authentication\_string FROM mysql.user WHERE USER='tom';

GRANT ALL ON test.\* TO 'opsuser'@'localhost';

GRANT SELECT, INSERT, UPDATE ON classicmodels.\* TO 'opsuser'@'localhost';

REVOKE ALL PRIVILEGES, GRANT OPTION FROM 'opsuser'@'localhost';

**REVOKE SELECT ON classicmodels.\* FROM 'opsuser'@'localhost';**

GRANT SELECT, INSERT, UPDATE ON offices. classicmodels TO 'opsuser'@'localhost';

select user,show\_db\_priv,max\_connections,account\_locked,host from mysql.user;

set privileges is called a role

CLI, you cannot able create a role and even you cannot assign to predefined roles as well.

---Introduced in 8.0 Version

create role dotnet;

grant create,alter,select,update,insert to dotnet;

Updating localhost to % (remote)

UPDATE mysql.user set host = '%' WHERE user = 'janu';

CREATE USER 'yesho'@'localhost' IDENTIFIED BY 'pwd123' WITH MAX\_QUERIES\_PER\_HOUR 20 MAX\_UPDATES\_PER\_HOUR 10 MAX\_CONNECTIONS\_PER\_HOUR 5 MAX\_USER\_CONNECTIONS 10;

ALTER USER 'devops'@'%' WITH MAX\_USER\_CONNECTIONS 15;

ALTER USER 'janu'@'localhost' WITH MAX\_USER\_CONNECTIONS 5;

ALTER USER 'sarath'@'%' WITH MAX\_USER\_CONNECTIONS 20;

ALTER USER 'opsuser'@'localhost' WITH MAX\_QUERIES\_PER\_HOUR 100;

ALTER USER 'dotnetapp'@'%' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

select user,host,max\_updates,max\_user\_connections,password\_expired,max\_questions from mysql.user;

UPDATE mysql.user set host = '%' WHERE user = 'root';

UPDATE mysql.user set host = '%' WHERE user = 'yesho';

UPDATE mysql.user set host = 'localhost' WHERE user = 'sarath';

UPDATE mysql.user set host = '%' WHERE user = 'repluser';