MYSQL

* mysql is a relational database management system (rdbms) based on sql (structured query language).
* First, install mysql and do secure installation. Give a password for the mysql root user.
* Enter into mysql db = **mysql -u root -p**.
* Type password for root user after prompting. After giving password, you can enter into mysql DB.
* To check all the databases in mysql = **show databases;** .
* To create a database = **create database databasename;** .
* To delete a database = **drop database databasename;** .
* To enter into a database = **use databasename;** .
* To see tables in that database = **show tables;** .
* To create a table = **create table tablename(name varchar(20), age int(20), salary int(20), date varchar(20))**; .
* To delete a table = **drop table tablename;** .
* To add a column to table = **alter table tablename add column columnname varchar(20);** .
* To remove column = **alter table tablename drop column columnname;** .
* To add data to table = **insert into tablename (name, age, salary) values ("red", "22", "100");** .
* To see particular table = **select \* from tablename;** .
* To see specific line in a table = **select \* from tablename where name="name";** .
* To add data to newly added column (or) to update the data in table(in a single line) =

**update tablename set columnname=data where name="red";** .

* To remove a row from table = **delete from tablename where name="name";** .
* To export db from local to mysql db = **mysql -u root -p mysqldbname < localfile path**.
* To import db from mysql to local = **mysqldump -u root -p mysqldb > local file path to save**.
* By default, root is the only user to login to mysql, to login as other users, you have to create users and giving them permissions to login to DB.
* To create users In db = **create user ‘username’@’localhost’ identified by ‘password’;** .

By default, user has no permissions. If you login with this user, db won’t show the databases and tables inside mysql. To access you have to give permissions.

* To give permissions to user = **grant all privileges on \* . \* to ‘user’@’localhost’;** .

It will give all permissions to that user.

* **flush privileges;** = to update permissions every time you change.
* List of permissions,

**All** **privileges** – all permissions.

**Create** – permissions to create databases and tables.

**Drop** – permissions to delete databases and tables.

**Delete** – permissions to delete rows from table.

**Insert** – permissions to insert rows in table.

**Select** – permissions to use select to read through databases.

**Update** – permissions to update rows in a table.

**Grant** **option** – permissions to give or remove other user’s permissions.

* To give permissions for an user for specific database and table =

**grant typeofpermission on dbname.tablename to ‘user’@’localhost’;** .

* To give permissions for all databases and tables =

**grant typeofpermission on \* . \* to ‘user’@’localhost’;** .

* To delete permissions for a user =

**revoke typeofperm on database.table to ‘user’@’localhost’;** .

* To delete an user = **drop user ‘user’@’locaslhost’;** .
* To login with **ip** (or) **host** create a user with ip (or) hostname in mysql and grant all privileges to that user.