**JFSD: A-Z of Back-end and Database Development**

**Day 8 : 4 Aug 24**

In Virtual Lab to create account for mysql database.

Open terminal

Sudo mysql -u root -p

-🡪 Simplilearn

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'root@123';

FLUSH PRIVILEGES;

Retrieve records from table using jdbc . executeQuery method return type is ResultSet interface reference. ResultSet is like a Iterator which provides method as rs.next() if record present base upon query it return true else it return false.

ResultSet rs = stmt.executeQuery(“select clause”);

Statement Vs PreparedStatement

1. Statement interface refer for static query . PreparedStatement refer for dynamic query using place holder as ?
2. In Statement each time query get compiled on java side, then query send to database and execute. But in PreparedStatement query compile only once and execute again and again if query is same.

Maven : Maven is known as build tool. Maven also known as devops tools.

Build tools means: it is responsible to compile the program, run the program, creating jar or war or ear file, responsible to download required dependencies, common project structure between more than one IDE as well as help to create the documentation.

Jar or war or ear

We can create maven project using eclipse IDE as well as Without IDE.

Pom.xml (Project Object Model) which file contains all maven configuration details.

Creating product management system with database using maven project

dao : data access object : this layer or package contains more than one class which is responsible to write database logic using jdbc or other technologies.

If we write jdbc in service layer. In future if we want to change any business logic then jdbc code get effect and vice-versa.

Java Bean class must be map to table

Product (JavaBean class) java side Product in Database as table

Pid,pname,price as variable name pid,pname,price column name

Scanner class

Next method doesn’t take space character

nextLine method takes data till hit enter key.

nextLine delimiter or terminal is enter key.