**Course 2 - Backend and Database Development**

**Day 13: 10 Jan 2025**

**Load the Driver using Class.forName(“driverName”);**

**Establish the connection**

**Created the statement**

**Using statement object we call executeUpdat method to insert, delete and update the record and executeQuery to retrieve the records.**

**Statement interface use to do static query. In Statement whenever we execute the code each time query get compiled on java side, then query send to database, then it execute and get the result may be success or failure depending upon query.**

**PreparedStatement interface use to do dynamic query. In PreparedStatement query compiled only once and execute again and again depending upon the query.**

**So performance wise PreparedStatement is faster than Statement interface.**

Maven tool: Maven is known as build tool. Build means which is responsible to compile the project, run the project, creating jar file or war file, responsible to download required jar file base upon project, help us to do testing, we can create documentation etc.

IDE , Eclipse, My Eclipse, Net bean etc. every IDE follow own project structure. With help of we can make common project structure provided by maven tool.

Jar 🡪 help to create standalone or desktop application

War 🡪 help to create web application using java.

GroupId : collection of more than one project with one unique name.

ArtifactId : actual project name.

Pom.xml : Project Object Model. It is a type of XML file which contains all project configuration details.