**Steps to connect with DB**

1. Register Driver(Load Driver)
   1. Register the class which use to perform DB activities
2. Create Connection
   1. We will connect with database by providing information(URL, User Name, Password)
3. Create Statement
   1. Use to hold sql statement(Queries)
4. Execute Statement
   1. Execute query and return generated result into application.
5. Close Connection
   1. Close connection to release resources.

**Register Driver :**

**Class.forName("oracle.jdbc.driver.OracleDriver");**

**Create Connection**

URL : (Protocol + Host(Ip) + Port + Domain + resource)

Oracle : jdbc:oracle.thin:@localhost:1521(1522):xe

Mysql : jdbc:mysql://localhost:3306/DataBaseName

UserName :

Password :

**Create statement**

We have 3 options

1. Statement(I)
   1. It is use to execute any type of queries(DDL,DML,DCL)
   2. Is slower than other options
   3. Sql Injection issue can be raised
   4. Syntax :

**Statement stmt= con.createStatement();**

1. PreparedStatement(I)
   1. It is use to execute any type of queries(DDL,DML,DCL)
   2. Is faster than statement
   3. Sql Injection issue will never raised
   4. Can write parameterized query.
   5. Syntax :

**PreparedStatement stmt=con.prepareStatement("Query");**

1. CallableStatement(I)
   1. Is use to execute procedure or function
   2. Fastest among all other option
   3. Syntax :

CallableStatement**stmt=con.prepareCall("call{Procedure/Function}");**

**Execute Statement**

We have 3 options

1. executeQuery() : ResultSet
   1. Use to execute select type for queries

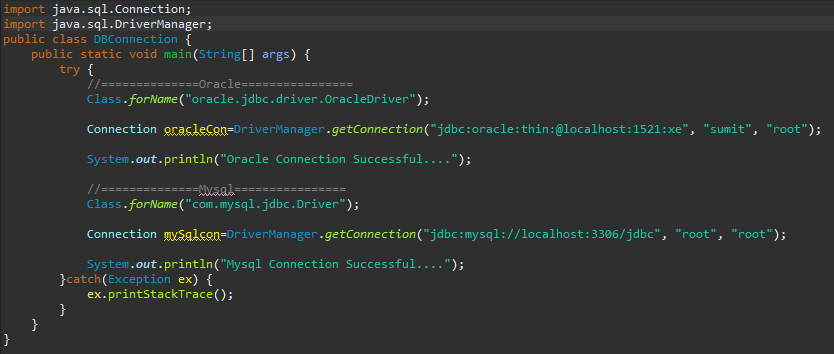
1. executeUpdate() : int
   1. Use to execute all other type of queries except select

1. execute() : boolean
   1. Use to execute all type of queries
   2. If return **true** then We can get **ResultSet**
   3. If return **false** then we can get **int**

**Add External Jar file into Core java Project**

1. Right click on project
2. Build path -> Configure build path
3. Go to Lib. Tab
4. Click on add External jar file
5. Select jar file
6. Click on Apply close

**Data Base connection**



Completed all 5 Data Base steps

