

Dt : 4/3/2025

Note:

=>we use `getConnection()`-method is from '`DriverManager`' to create implementation Object for '`Connection`' interface, because `getConnection()`-method internally holding '`Anonymous Local InnerClass` as implementation class of `Connection` interface' and which generate `Connection-Implementation` Object

Method Signature of `getConnection()`:

```
public static java.sql.Connection getConnection  
  
    (java.lang.String, java.lang.String, java.lang.String)  
  
    throws java.sql.SQLException;
```

syntax:

```
Connection con = DriverManager.getConnection("DB-URL", "DB-UName", "DB-PWord");
```

DB-URL => `jdbc:oracle:thin:@localhost:1521:XE`

DB-UName=> `system`

DB-PWord=> `tiger`

```
Connection con = DriverManager.getConnection
```

```
("jdbc:oracle:thin:@localhost:1521:xe", "system", "tiger");
```

***imp**

JDBC statements:

=>JDBC statements will specify the type of operation to be performed on DB Product.

=>These JDBC statements are categorized into three types:

1.Statement

2.PreparedStatement

3.CallableStatement

1.Statement:

=>'Statement' is an interface from java.sql package and which is used to execute normal queries without IN-Parameters.

(Normal queries means Create,Insert,Select,Update and delete)

=>we use createStatement()-method from 'Connection' interface to create implementation object for 'Statement' interface,because this createStatement()-method internally holding 'Anonymous Local InnerClass as implementation class of Statement-Interface' and which generate Statement-Object.

Method Signature of createStatement();

public abstract java.sql.Statement createStatement() throws java.sql.SQLException;

syntax:

Statement stm = con.createStatement();

=>The following are two important methods of 'Statement' interface:

(a)executeQuery()

(b)executeUpdate()

(a)executeQuery():

=>executeQuery()-method is used to execute select-queries

Method Signature of executeQuery():

public abstract java.sql.ResultSet executeQuery(java.lang.String)

throws java.sql.SQLException;

syntax:

ResultSet rs = stm.executeQuery("select-query");

(b)executeUpdate():

=>executeUpdate()-method is used to execute NonSelect-Queries

Method Signature of executeUpdate:

public abstract int executeUpdate(java.lang.String) throws java.sql.SQLException;

syntax:

int k = stm.executeUpdate("NonSelect-Query");

***imp**

Creating JDBC Application Using IDE Eclipse:

step-1 : Open IDE Eclipse,while opening name the WorkSpace and click 'Launch'

step-2 : Create Java Project

step-3 : Add DB-Jar file to Java-Project through 'Build path'

RightClick on Project->Build Path->Configure Build Path->Libraries->select 'Classpath' and

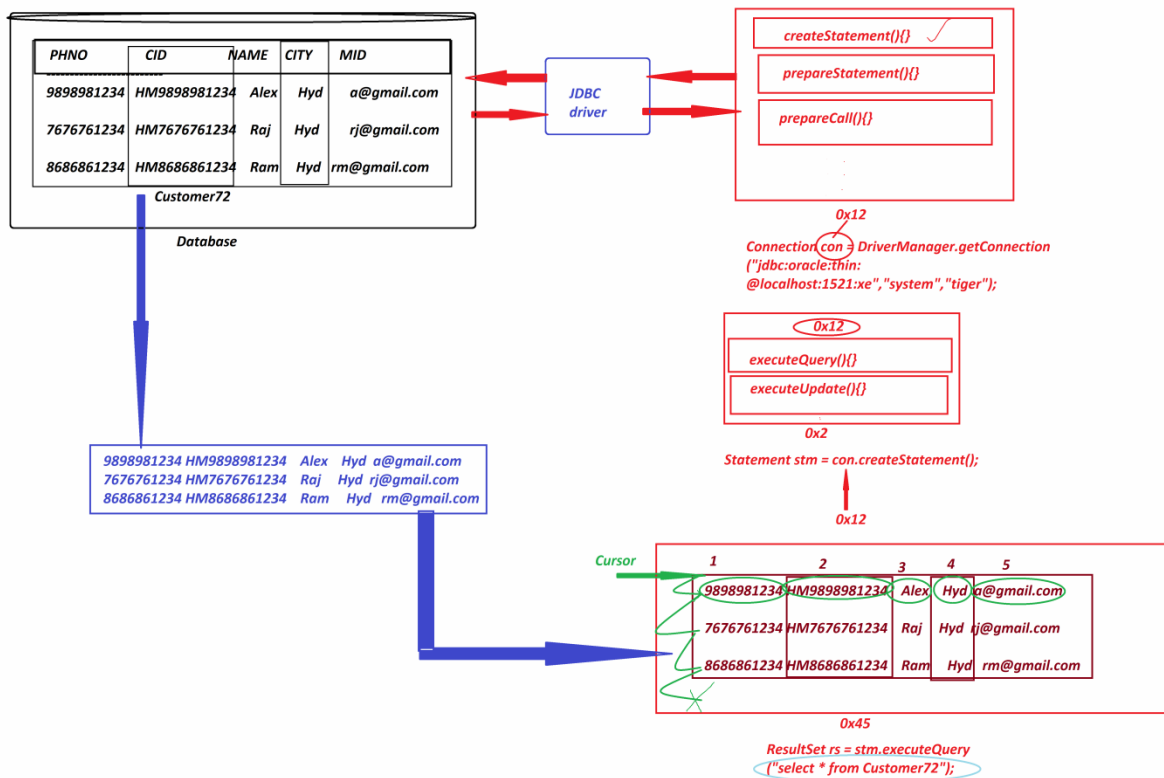
click 'Add External JARs'->Browse and select DB-Jar file from user defined folder->Open->

Apply->Apply and Close.

step-4 : Create package in 'src'

step-5 : Create class(JDBC Program) in package and write JDBC-code to display all Customer

details



DBCon1.java

```
package test;
import java.sql.*;
public class DBCon1
{
    public static void main(String[] args)
    {
        try
        {
```

