

Dt : 4/1/2025(Day-6)

=>we use getConnection()-method from 'java.sql.DriverManager' class to create implementation object for 'Connection-Interface'.

=>This getConnection()-method internally holding 'Anonymous Local InnerClass as implementation class of Connection-Interface' and the Connection-Object is generated.

=>This Connection-Object internally connected to Database product.

Method Signature of getConnection():

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

syntax:

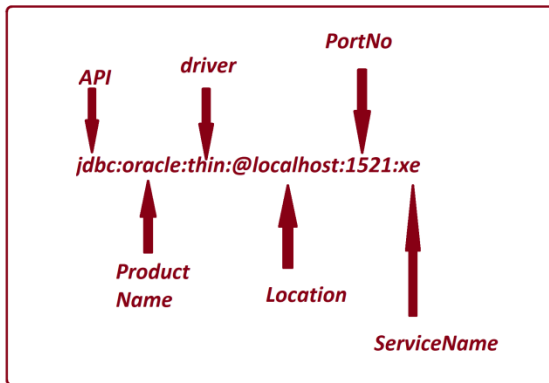
Connection con = DriverManager.getConnection("DB-URL", "DB-UName", "DB-PWord");

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

DB-UName => system

DB-PWord => tiger

Diagram:



***imp**

JDBC statements:

=>The statements which specify the actions(operations) to be performed on database product are known as JDBC-statements:

=>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 execute Normal queries without IN-Parameters.

(Normal queries means Create,Insert,Select(retrieve),update and delete)

=>we use createStatement()-method from 'Connection-Interface' to create implementation object for 'Statement-Interface'

=>This createStatement()-method internally holding 'Anonymous Local InnerClass as

implementation class of Statement-Interface' and generates 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':

(a)executeQuery()

(b)executeUpdate()

(a)executeQuery():

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

Method Signature:

***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:

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

syntax:

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

