

Dt : 29/9/2024(Day-4)

Note:

=>we use `getConnection()`-method from '`java.sql.DriverManger`' class to create implementation object for '`Connection-Interface`' and this '`Connection-Object`' internally connected to Database product.

=>This `getConnection()`-method internally holding '`Anonymous Local InnerClass` as implementation class of `Connection` interface'.

Method Signature of `getConnection()`:

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

syntax:

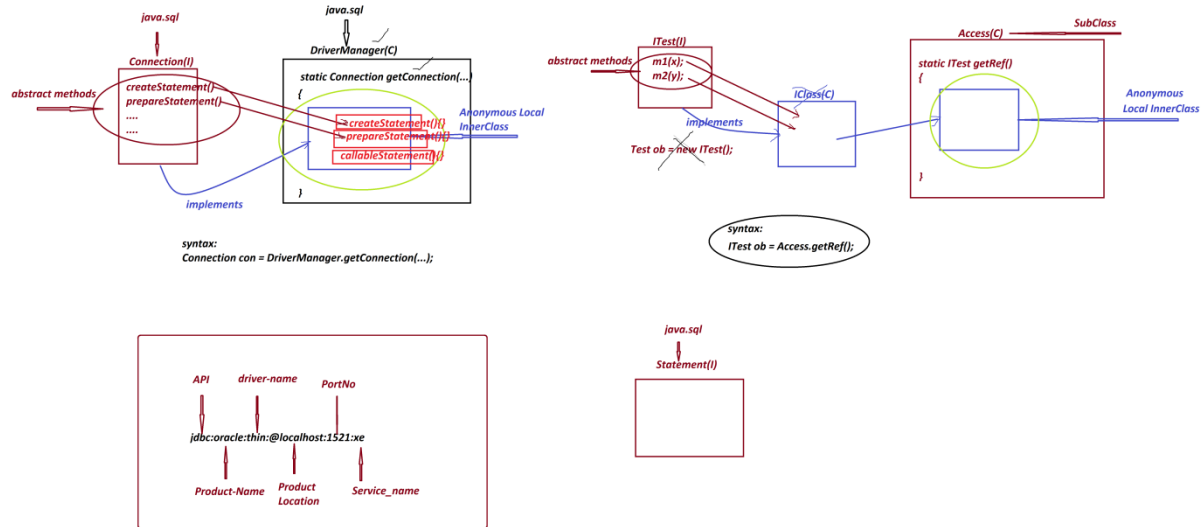
`Connection con = DriverManager.getConnection("DB-URL","DB-UName","DB-PWord");`

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

DB-UName => `system`

DB-PWord => `tiger`

Diagrams:



***imp**

JDBC statements:

=>The statements which specify the actions 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 to execute normal queries without IN-Parameters.

(Normal queries means Create,Insert,Retrieve(Select),Update,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'.

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:

(i)executeQuery()

(ii)executeUpdate()

(i)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");

(ii)executeUpdate():

=>executeUpdate()-method is used to execute Non-Select queries like Create,Insert,Update and delete.

Method Signature of executeUpdate():

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

syntax:

```
int k = stm.executeUpdate();
```

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