CORE JAVA

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CIBC

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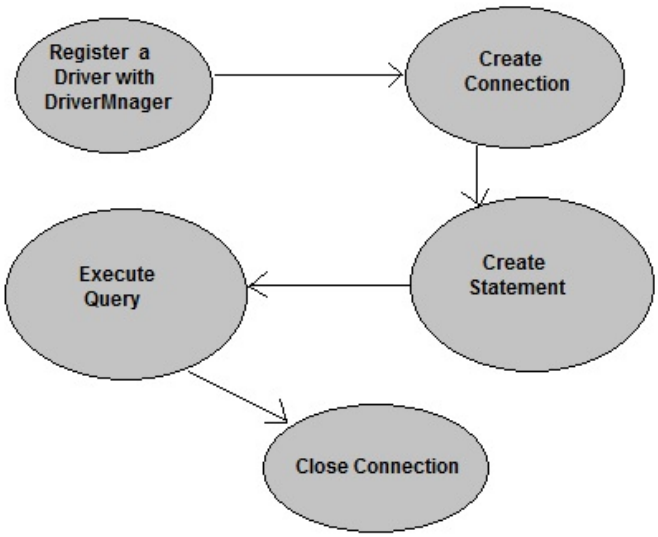
Steps to connect a Java Application to Database

The following 5 steps are the basic steps involve in connecting a Java application with Database using JDBC.

1. Register the Driver
2. Create a Connection
3. Create SQL Statement
4. Execute SQL Statement
5. Closing the connection



Register the Driver

`Class.forName()` is used to load the driver class explicitly.

Example to register with JDBC-ODBC Driver

```
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
```

Create a Connection

`getConnection()` method of **DriverManager** class is used to create a connection.

Syntax

```
getConnection(String url)
getConnection(String url, String username, String password)
getConnection(String url, Properties info)
```

Example establish connection with Oracle Driver

```
Connection con = DriverManager.getConnection
                    ("jdbc:oracle:thin:@localhost:1521:XE","username","password");
```

Create SQL Statement

`createStatement()` method is invoked on current **Connection** object to create a SQL Statement.

Syntax

```
public Statement createStatement() throws SQLException
```

Example to create a SQL statement

```
Statement s=con.createStatement();
```

Execute SQL Statement

`executeQuery()` method of **Statement** interface is used to execute SQL statements.

Syntax

```
public ResultSet executeQuery(String query) throws SQLException
```

Example to execute a SQL statement

```
ResultSet rs=s.executeQuery("select * from user");
  while(rs.next())
  {
   System.out.println(rs.getString(1)+" "+rs.getString(2));
  }
```

Closing the connection

After executing SQL statement you need to close the connection and release the session. The `close()` method of **Connection** interface is used to close the connection.

Syntax

```
public void close() throws SQLException
```

Example of closing a connection

```
con.close();
```

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