# Steps for Writing a JDBC Program

## Step-1: Register the driver or loading the driver

 To load or register the driver we can use any one of the following methods.

### Syntax:

Class.forName("url");

DriverManager.registerDriver("url");

System.setProperty("url");

## Step-2: Establishing the connection to a database

 In this step we establish a connection with a specific database. The connection establishment can be done by Connection Interface.

### Syntax:

Connection con=DriverManager.getConnection("url");

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### Step-3: Preparing SQL statement

 In this step we should create SQL statement in our java program using any one of the interface like Statement or PreparedStatement or CallableStatement.

#### Syntax:

```
Statement st=con.createStatement();
PreparedStatement ps=con.prepareStatement("sql query");
Step-4: Executing the SQL statement
```

 For this purpose we use execute(), executeQuery() and executeUpdate() methods of Statement interface.

#### Syntax:

```
Boolean b=st.execute("sql query");
int i=st.executeUpdate("insert or delete or update query");
ResultSet rs=st.executeQuery("select query");
```

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#### Step-5: Retrieving the Results

 The results obtained by executing the sql statement can be stored in an object with the help of ResultSet interface.

#### Syntax:

ResultSet rs=st.executeQuery("select \* from table name");

- ResultSet object maintains a cursor.
- When ResultSet object is first created, then the cursor is pointed before the first row of table.
- In order to move the cursor to next row we need to use next()
  method.

#### Step-6: Close the Connection

 To close the connection between java program and database we use one method close() of Connection interface.

#### Syntax:

con.close();