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FACULTY OF Engineering &
Technology

1. Register the driver class

The **forName()** method of Class class is used to register the driver class. This method is used to dynamically load the driver class. Syntax of forName() method

public static void forName(String className)**throws** ClassNotFoundException

it is a public and static method of the class named as **Class**

Example: Class.forName("sun.jdbc.odbc.JdbcOdbcDriver"); here type 1 driver is used

2) Create the connection object

2.1) The **getConnection()** method of DriverManager class is used to establish connection with the database.

2.2) **public static** Connection getConnection(String url)**throws** SQLException

2.3) **public static** Connection getConnection(String url,String name,String password)
throws SQLException

Example to establish connection with the Oracle database

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

3) Creating the Statement object

The createStatement() method of Connection interface is used to create statement object.

The object of statement is responsible to execute queries with the database.

public Statement createStatement()**throws** SQLException

Example to create the statement object

Statement stmt=con.createStatement();

where con is the object of the class implementing the connection interface

4) Execute the query

The executeQuery() method of Statement interface is used to execute queries to the database. This method returns the object of ResultSet that can be used to get all the records of a table.

Syntax of executeQuery() method

public ResultSet executeQuery(String sql)**throws** SQLException

5) Closing the connection object

By closing connection object statement and ResultSet will be closed automatically. The close() method of Connection interface is used to close the connection.

Syntax of close() method:

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

Example to close connection

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

Where con is the connection object

Example:

```
import java.sql.*;
```

```
class test{
```

```
public static void main(String args[]){
```

```
try{
```

```
//step1 load the driver class
```

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

```
//step2 create the connection object
```

```
Connection con=DriverManager.getConnection( "jdbc:odbc:dsnname","system","oracle");
```