Java Database Connectivity

1. Import the package (java.sql.\*)
2. Load and register the driver:

* Driver for MySQL : com.mysql.jdbc.Driver
* To load the driver you need to add a jar file: mysql.connector
* To register you need to use a method call forName() it loads the driver

The syntax is: Class.forName(“com.mysql.jdbc.Driver”)

1. Connecting or establish the connection: To establish a connection you have to instantiate an interface called Connection
2. Create the statement: Statements are of 3 types:

* Statement
* Prepared Statement: for predefined queries
* Callable Statement: stored procedures

1. Execute the query: fetch data, insert, update
2. Process results
3. Close the connection

Coding Example

1. Import java.sql.\*;

//load the connector jar file

Main()

{

2) Class.forName(“com.mysql.jdbc.Driver”);

3) Connection con = DriverManager.getConnection(“DBMS URL”, “User Name”, “Password”);

4) Statement st = con.createStatement();

5) ResultSet rs = st.executeQuery(“SELECT \* FROM student”);//the query returns a set of results

6) while(rs.next())

{

System.out.println(rs.getInt(1) + “ ” + rs.getString(2));

}

7) st.close();

rs.close();

}