JAVA SQL Connectivity

Select:

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class mysqlselect
{
public static void main(String[] args)throws ClassNotFoundException,SQLException
        {
                String username="System ";
                String password="shubham";
                String url="jdbc:mysql://localhost/test";
                Class.forName("com.mysql.jdbc.Driver");

                Connection con=DriverManager.getConnection(url,username,password);
                Statement stm=con.createStatement();
                ResultSet rs=stm.executeQuery("select * from student");
                        while (rs.next())
                                {
                                System.out.print(rs.getString("s_name")+"  ");
                                System.out.print(rs.getInt("s_rollno")+"  ");
                                System.out.print(rs.getString("s_div")+"  ");
                                System.out.print("\n");
                                }
                rs.close();
                stm.close();
                con.close();
            }
}
```

Output=

Shubham 1 C

Rahul 2 C
Ram 3 B
Sita 2 C

Insert:

```java
import java.sql.*;
public class mysqlinsert
{
        public static void main(String[] args) throws ClassNotFoundException,SQLException
        {
                int i=0;
                String username="System ";
                String password="123";
                String url="jdbc:mysql://localhost/test";

                Class.forName("com.mysql.jdbc.Driver");
                Connection     con = DriverManager.getConnection(url,username,password);
                Statement      st = con.createStatement();
                        i = st.executeUpdate("insert into student values('XYZ',12,'A')");

                        if (i>0)
                        {
                        System.out.print("Data inserted Successfully");
                }
                        else
                        {
                                System.out.print("Error in inserting data");
                        }

                        con.close();
        }
}
```

Output=

Data inserted Successfully

 select * from student;

```
+--------+----------+-------+
| s_name | s_rollno | s_div |
+--------+----------+-------+
| Shubham |      1 | C    |
| Rahul  |      2 | C    |
| Shruti |      4 | B    |
| Shubham |      1 | C    |
| Rahul  |      2 | C    |
| Rahul  |      2 | C    |
| XYZ    |     12 | A    |
+--------+----------+-------+
7 rows in set (0.00 sec)
```

Update:

```java
import java.sql.*;
public class mysqlupdate
{
        public static void main(String[] args) throws ClassNotFoundException,SQLException
        {
                int i=0;
                String username="System ";
                String password="123";
                String url="jdbc:mysql://localhost/test";
                        String query = "Update student set s_name='mahesh' where s_rollno=1";
                        Class.forName("com.mysql.jdbc.Driver");
                        Connection con= DriverManager.getConnection(url,username,password);
                        Statement st = con.createStatement();
                        i = st.executeUpdate(query);
```

```java
                    if (i>0)
                    {
                            System.out.print("Data Updated Successfully");
            }
                    else
                    {
                            System.out.print("Error in Updating data");
                    }
                con.close();
        }

}
```

Output=

```
Data Updated Successfully
select * from student;
+--------+----------+-------+
| s_name | s_rollno | s_div |
+--------+----------+-------+
| Shubham|        1 | C     |
| Rahul  |        2 | C     |
| Shruti |        4 | B     |
| Shubham|        1 | C     |
| Rahul|        2 | C     |
| Rahul|        2 | C     |
| XYZ    |       12 | A     |
+--------+----------+-------+
7 rows in set (0.00 sec
```

Delete:

```java
import java.sql.*;
public class mysqldelete
{
        public static void main(String[] args) throws ClassNotFoundException,SQLException
```

```java
        {
                int i=0;
                String username="root";
                String password="123";
                String url="jdbc:mysql://localhost/test";

                Class.forName("com.mysql.jdbc.Driver");
                Connection con= DriverManager.getConnection(url,username,password);
                Statement st= con.createStatement();
                i = st.executeUpdate("delete from  student where s_rollno=3");

                if (i>0)
                {
                        System.out.print("Data deleted Successfully");
            }
                else
                        System.out.print("Error in Deleting data");
        con.close();
    }
}
```

Output=

Data deleted Successfully

select * from student;

```
+--------+----------+-------+
| s_name | s_rollno | s_div |
+--------+----------+-------+
| Shubham|        2 | C     |
| Rahul  |        4 | B     |
| Rahul  |        2 | C     |
| Rahul  |        2 | C     |
+--------+----------+-------+
```

4 rows in set (0.00 sec)