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COURSE NAME	:	Modern Application Development (Java Spring Boot)

ASSIGNMENT -03

Implement JDBC Connectivity using java

Database:

```
MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| da                 |
| information_schema |
| ipwt               |
| mysql              |
| performance_schema |
| phpmyadmin         |
| spring             |
| test               |
+--------------------+
8 rows in set (0.053 sec)
```

```
MariaDB [spring]> use spring;
Database changed
MariaDB [spring]> show tables;
+------------------+
| Tables_in_spring |
+------------------+
| demo             |
| info             |
| student          |
+------------------+
3 rows in set (0.001 sec)
```

```
MariaDB [spring]> select * from student;
+------+--------+-----------+--------+
| sno  | name   | reg       | course |
+------+--------+-----------+--------+
|    1 | chibhi | 20bct0029 | cse    |
|    2 | raj    | 20bee0099 | civil  |
|    3 | nitish | 20ble039  | mech   |
|    4 | badri  | 20bai101  | AI     |
+------+--------+-----------+--------+
4 rows in set (0.000 sec)
```

Java code:

SELECT QUERY

```java
import java.sql.*;

public class jdbc {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/spring", "root", "");


            Statement stmt = conn.createStatement();

            ResultSet rs = stmt.executeQuery("select * from student");

            while (rs.next()) {
                System.out.println(rs.getString(1) + " " + rs.getString(2)
+ " " + rs.getString(4));
            }

            conn.close();
        } catch (Exception e) {
            System.out.println(e);
        }

    }
}
```

OUTPUT:

Problems @ Javadoc Declaration Console ×

<terminated> jdbc [Java Application] C:\Users\CHIBHIRAJ\.p2\pool\plug

```
1 chibhi cse
2 raj civil
3 nitish mech
4 badri AI
```

```
MariaDB [spring]> select * from student;
+--------+--------+------------+--------+
| sno    | name   | reg        | course |
+--------+--------+------------+--------+
|      1 | chibhi | 20bct0029  | cse    |
|      2 | raj    | 20bee0099  | civil  |
|      3 | nitish | 20ble039   | mech   |
|      4 | badri  | 20bai101   | AI     |
+--------+--------+------------+--------+
4 rows in set (0.000 sec)
```

UPDATE QUERY

```java
import java.sql.*;

public class jdbc {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/spring", "root", "");


            Statement stmt = conn.createStatement();

             String query = "UPDATE student  set sno =3 ,name='kumar' where
course='AI'";
            stmt.executeUpdate(query);
            System.out.println("After updating");
            System.out.println("-------------------------");

            ResultSet rs = stmt.executeQuery("select * from student");

            while (rs.next()) {
                System.out.println(rs.getString(1) + " " + rs.getString(2)
+ " " + rs.getString(3));
            }

            conn.close();
        } catch (Exception e) {
            System.out.println(e);
        }

    }

}
```

OUTPUT

Problems @ Javadoc Declaration Console ✕

<terminated> jdbc [Java Application] C:\Users\CHIBHIRAJ\.p2\pool\plugins\o
After updating
----
1 chibhi cse
2 raj civil
3 kumar AI

```
MariaDB [spring]> select * from student;
+-------+--------+--------+
| sno   | name   | course |
+-------+--------+--------+
|     1 | chibhi | cse    |
|     2 | raj    | civil  |
|     3 | kumar  | AI     |
+-------+--------+--------+
3 rows in set (0.001 sec)
```

INSERT QUERY

```java
import java.sql.*;

public class jdbc {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/spring", "root", "");


            Statement stmt = conn.createStatement();

             String query = "INSERT INTO student VALUES (4, 'jai', 'mech')";

            stmt.executeUpdate(query);
            System.out.println("After inserting");
            System.out.println("-------------------------");

            ResultSet rs = stmt.executeQuery("select * from student");

            while (rs.next()) {
                System.out.println(rs.getString(1) + " " + rs.getString(2)
+ " " + rs.getString(3));
            }

            conn.close();
        } catch (Exception e) {
            System.out.println(e);
        }

    }

}
```

OUTPUT

```
After inserting
--------------------------
1 chibhi cse
2 raj civil
3 kumar AI
4 jai mech
```

```
MariaDB [spring]> select * from student;
+------+--------+--------+
| sno  | name   | course |
+------+--------+--------+
|    1 | chibhi | cse    |
|    2 | raj    | civil  |
|    3 | kumar  | AI     |
|    4 | jai    | mech   |
+------+--------+--------+
4 rows in set (0.005 sec)
```

Delete QUERY

```java
import java.sql.*;

public class jdbc {

    public static void main(String[] args) {

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/spring", "root", "");


            Statement stmt = conn.createStatement();

             String query = "delete from student where sno=3";
            stmt.executeUpdate(query);
            System.out.println("After Deleting a column:");
            System.out.println("------------------------");

            ResultSet rs = stmt.executeQuery("select * from student");

            while (rs.next()) {
                System.out.println(rs.getString(1) + " " + rs.getString(2)
+ " " + rs.getString(3));
            }

            conn.close();
        } catch (Exception e) {
            System.out.println(e);
        }

    }

}
```

Output

After Deleting a column:
----

1 chibhi cse
2 raj civil
4 badri AI

```
MariaDB [spring]> select * from student;
+-------+--------+--------+
| sno   | name   | course |
+-------+--------+--------+
|     1 | chibhi | cse    |
|     2 | raj    | civil  |
|     4 | badri  | AI     |
+-------+--------+--------+
3 rows in set (0.001 sec)
```