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MORDERN APPLICATION DEVELOPEMNT – JAVA SPRINGBOOT

ASSIGNMENT 3 (WEEK 3)

JDBC

Display

Code:

```java
package javaSpringbootJDBC;
import java.sql.*;

public class Main {

    public static void main(String[] args) {

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


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javaspringboot", "root",
"Jaij@2002");


            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(3) + " " + rs.getInt(4));
            }

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

    }

}
```

Output:

```
Loading class `com.mysql.jdbc.Driver'. This is deprecated.
1 a computer science 160
10 j chemical 320
11 k architecture 350
12 l architecture 355
2 b computer science 165
3 c mechanical 500
4 d mechanical 500
6 f eee 220
7 g ece 250
8 h ece 255
9 i chemical 300
```

Insert

Code:

```java
package javaSpringbootJDBC;
import java.sql.*;

public class Main {

    public static void main(String[] args) {

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

            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javaspringboot", "root",
"Jaij@2002");

            Statement stmt = conn.createStatement();

            int res = stmt.executeUpdate("insert into student
values('5','e','eee',225);");
            if(res == 1)
                System.out.println("Record inserted successfully");

            System.out.println("After insertion:");
            ResultSet rs = stmt.executeQuery("select * from student");

            while (rs.next()) {
                System.out.println(rs.getString(1) + " " +
rs.getString(2) + " " + rs.getString(3) + " " + rs.getInt(4));
            }

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

```
        }

}
```

Output:

```
Loading class `com.mysql.jdbc.Driver'. This is deprecated.
Record inserted successfully
After insertion:
1 a computer science 160
10 j chemical 320
11 k architecture 350
12 l architecture 355
2 b computer science 165
3 c mechanical 500
4 d mechanical 500
5 e eee 225
6 f eee 220
7 g ece 250
8 h ece 255
9 i chemical 300
```

Delete:

Code:

```java
package javaSpringbootJDBC;
import java.sql.*;

public class Main {

    public static void main(String[] args) {

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


            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javaspringboot", "root",
"Jaij@2002");


            Statement stmt = conn.createStatement();

            int res = stmt.executeUpdate("delete from student where
id='12';");

            if(res == 1)
                System.out.println("Record deleted successfully");

            System.out.println("After deletion:");
```

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

                while (rs.next()) {
                        System.out.println(rs.getString(1) + " " +
rs.getString(2) + " " + rs.getString(3) + " " + rs.getInt(4));
                }

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

    }

}
```

Output:

```
Loading class `com.mysql.jdbc.Driver'. This is deprecated.
Record deleted successfully
After deletion:
1 a computer science 160
10 j chemical 320
11 k architecture 350
2 b computer science 165
3 c mechanical 500
4 d mechanical 500
5 e eee 225
6 f eee 220
7 g ece 250
8 h ece 255
9 i chemical 300
```

Prepared statement

Code:

```java
package javaSpringbootJDBC;
import java.sql.*;

public class Main {

        public static void main(String[] args) {

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


                        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javaspringboot", "root",
"Jaij@2002");
```

```java
                    PreparedStatement stmt = conn.prepareStatement("insert into
student values(?,?,?,?);");
                    stmt.setString(1, "12");
                    stmt.setString(2, "l");
                    stmt.setString(3, "architecture");
                    stmt.setInt(4, 225);

                    int res = stmt.executeUpdate();
                    if(res == 1)
                            System.out.println("Record inserted successfully");

                    System.out.println("After insertion:");
                    ResultSet rs = stmt.executeQuery("select * from student");

                    while (rs.next()) {
                            System.out.println(rs.getString(1) + " " +
rs.getString(2) + " " + rs.getString(3) + " " + rs.getInt(4));
                    }

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

        }

}
```
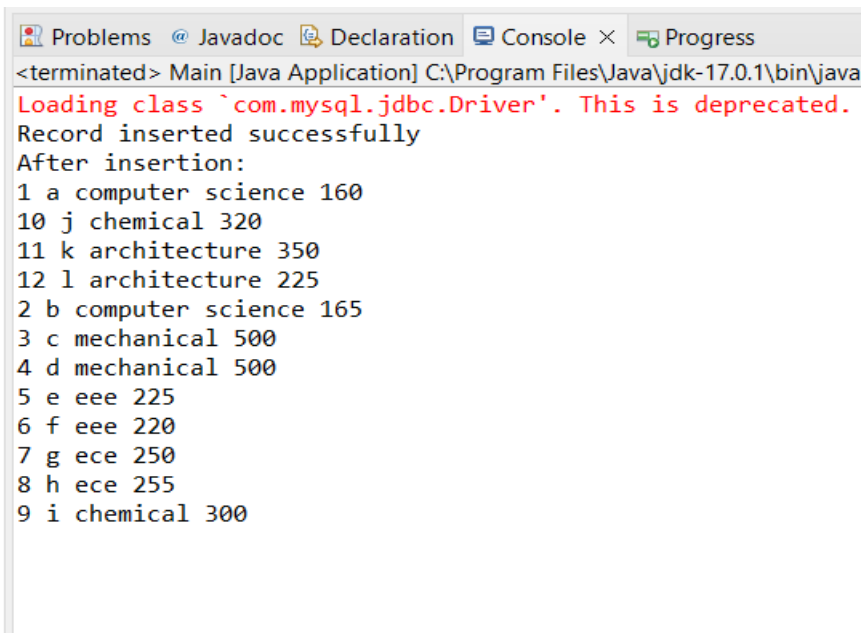
Output:

Update

Code:

```java
package javaSpringbootJDBC;
import java.sql.*;

public class Main {
```

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

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


                        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/javaspringboot", "root",
"Jaij@2002");


                        Statement stmt = conn.createStatement();

                        int res = stmt.executeUpdate("update student set name = 'cc'
where id = '3';");
                        if(res == 1)
                                System.out.println("Record updated successfully");

                        System.out.println("After updation:");
                        ResultSet rs = stmt.executeQuery("select * from student");

                        while (rs.next()) {
                                System.out.println(rs.getString(1) + " " +
rs.getString(2) + " " + rs.getString(3) + " " + rs.getInt(4));
                        }

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

        }

}
```
Output:

```
 Problems  @ Javadoc  Declaration  Console ×  Progress
<terminated> Main [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\java
Loading class `com.mysql.jdbc.Driver'. This is deprecated.
Record updated successfully
After updation:
1 a computer science 160
10 j chemical 320
11 k architecture 350
12 l architecture 225
2 b computer science 165
3 cc mechanical 500
4 d mechanical 500
5 e eee 225
6 f eee 220
7 g ece 250
8 h ece 255
9 i chemical 300
```