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Drive Link:

https://drive.google.com/file/d/1_JMZeSZjqDTy9gsOVc_mqQAkGF2bCsED/view?usp=drive_link

ASSIGNMENT-3

1. FOR DISPLAYING RECORDS:

The screenshot displays an IDE with the following components:

- Package Explorer (Left):** Shows a project named 'Smart_Bridge' with a 'src' folder containing 'Java' and 'RE System Library (src-1.0)'. There are also 'References Libraries' including 'mysql-connector-j-8.0.33.jar'.
- Main Editor (Center):** Contains the code for 'IDBCExample.java'. The code is as follows:


```

public class IDBCExample {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        try {
            //1. Register the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2. establish the connection
            Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignment2","root","Shargavi2003@#");
            //3. create a statement
            Statement stmt=conn.createStatement();
            //4. execute the query
            ResultSet rs=stmt.executeQuery("Select * from department");
            while(rs.next()) {
                System.out.println(rs.getInt(1)+" "+ rs.getInt(2)+" "+rs.getString(3));
            }
            //5. Close the connection
            conn.close();
        }
        catch(Exception e) {

        }

    }

}

```
- Problems Panel (Bottom):** Shows a warning message:


```

<terminated> IDBCExample [Java Application] C:\Users\personal\Downloads\erclipse-jee-2020-12-R-win32-x86_64\erclipse\plugins\org.eclipse.jdt.ui\org.eclipse.jdt.ui.win32.x86_64_13.0.1
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered
1 1 CSE
2 2 MECH
2 3 ECE
4 20 MATH
5 23 ENG

```

2a. PREPARED STATEMENT TO INSERT VALUES FROM USER:

```
package Java;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.sql.ResultSet;

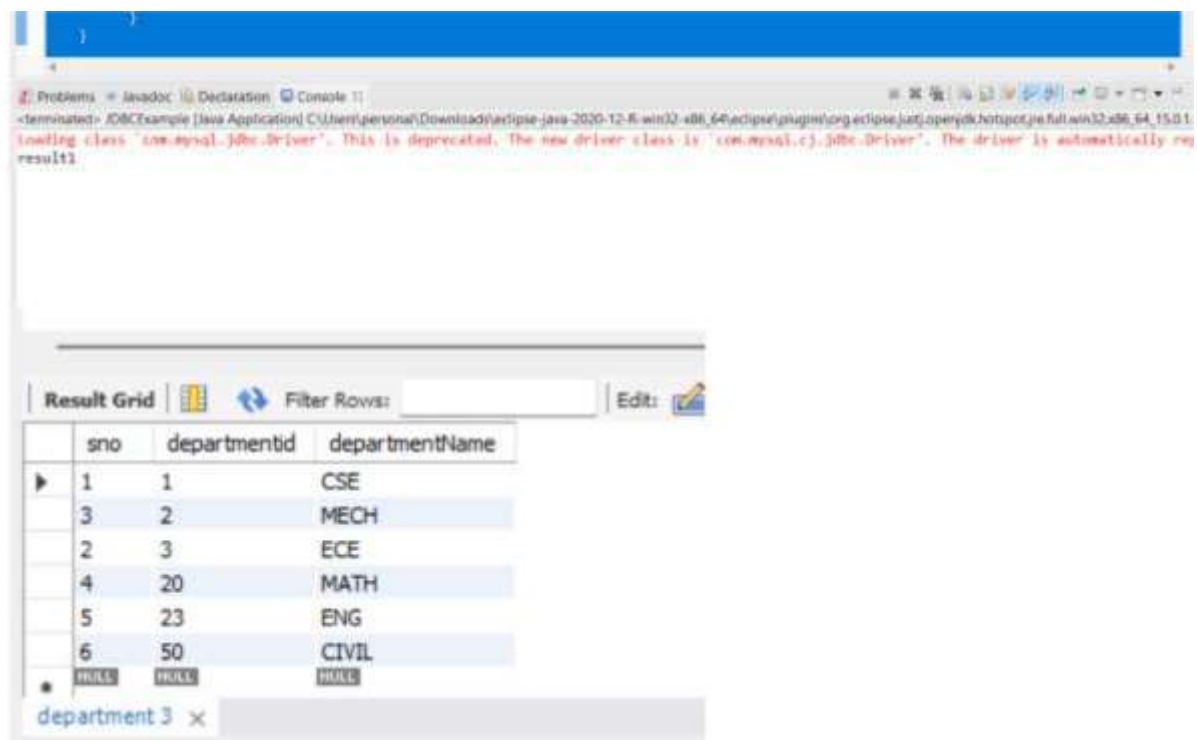
public class JDBCExample {

    public static void main(String[] args) {
        try {
            //1, Register the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2.establish the connection
            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignmnet2","root",
"Bhargavi2003*5##");
```

```

        //3.create a statement
        PreparedStatement stmt=conn.prepareStatement("insert
into department values(?,?,?)");
        stmt.setInt(1, 6);
        stmt.setInt(2, 50);
        stmt.setString(3,"CIVIL");
        //4.execute the query
        int result=stmt.executeUpdate();
        System.out.println("result" + result);
        //5.close the connection
        conn.close();
    }
    catch(Exception e) {
        e.printStackTrace();
    }
}
}

```



2.b. INPUT FROM USER USING A SCANNER CLASS:

```

package Java;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.util.Scanner;
import java.sql.ResultSet;

public class JDBCExample {

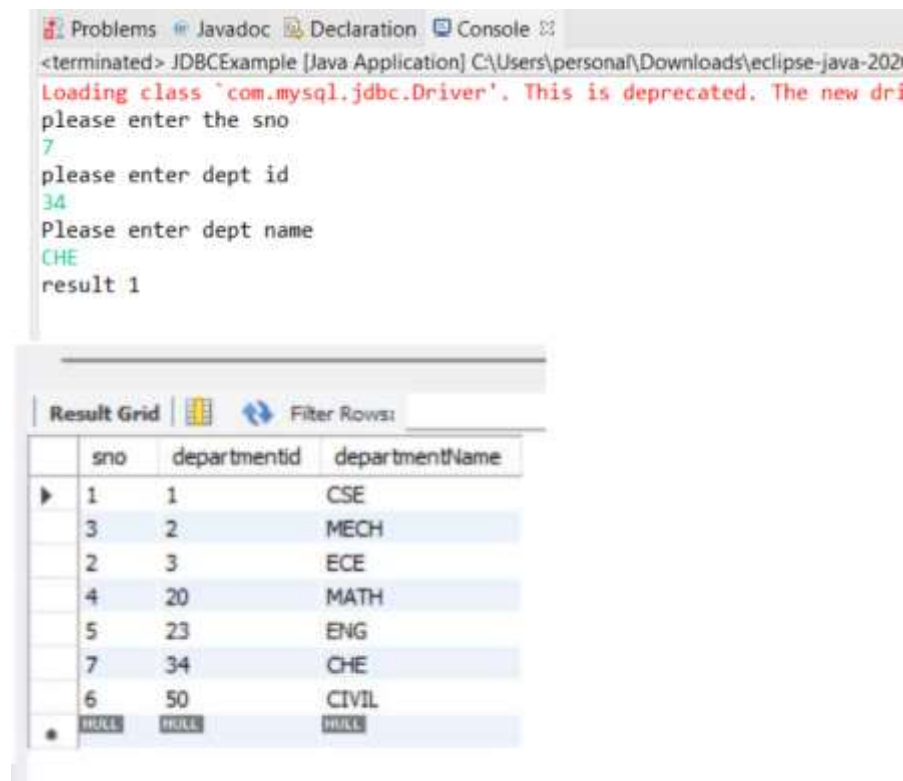
    public static void main(String[] args) {
        try {
            //1, Register the driver

```

```

        Class.forName("com.mysql.jdbc.Driver");
        //2.establish the connection
        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignmnet2","root",
"Bhargavi2003*5##");
        //3.create a statement
        PreparedStatement stmt=conn.prepareStatement("insert
into department values(?,?,?)");
        Scanner in=new Scanner(System.in);
        System.out.println("please enter the
        sno"); int sno=in.nextInt();
        stmt.setInt(1, sno);
        System.out.println("please enter dept id");
        int departmentid=in.nextInt();
        stmt.setInt(2, departmentid);
        System.out.println("Please enter dept name");
        String departmentName=in.next();
        stmt.setString(3, departmentName);
        int result=stmt.executeUpdate();
        System.out.println("result " + result);
        //5.close the connection
        conn.close();
    }
    catch(Exception e) {
        e.printStackTrace();
    }
}
}
}

```



3. FOR DELETING RECORD:

```

package Java;
import java.sql.Connection;

```

```

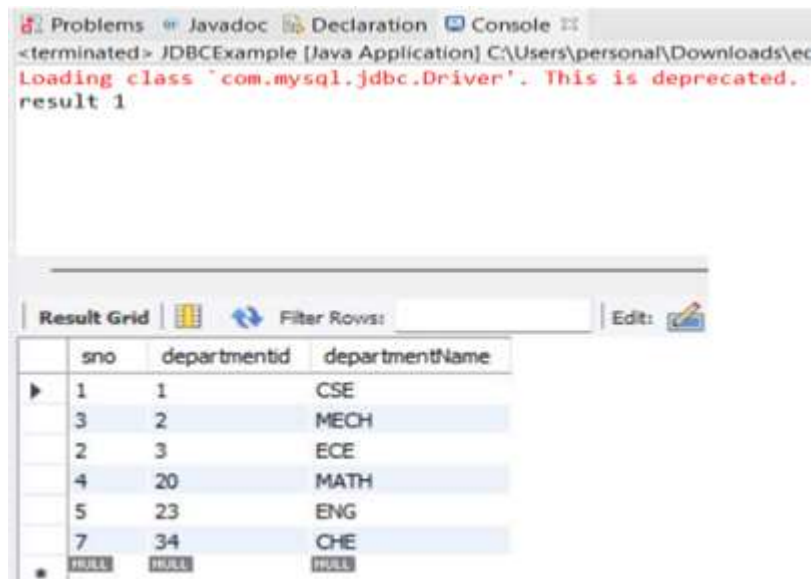
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.util.Scanner;
import java.sql.ResultSet;
import java.sql.SQLException;

public class JDBCExample {

    public static void main(String[] args) {
        try {
            //1, Register the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2.establish the connection Connection

conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignmnet2","root",
"Bhargavi2003*5##");
            //3.create a statement
            Statement stmt=conn.createStatement();
            String sql="DELETE FROM department WHERE departmentId=50";
            int result= stmt.executeUpdate(sql);
            System.out.println("result "+result);
            conn.close();
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
}

```



4. FOR UPDATING RECORD:

```

package Java;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.Statement;
import java.util.Scanner;

```

```

import java.sql.ResultSet;
public class JDBCExample {

    public static void main(String[] args) {
        try {
            //1, Register the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2.establish the connection
            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/assignmnet2","root",
"Bhargavi2003*5##");
            //3.create a statement
            Statement stmt=conn.createStatement();
            String sql="UPDATE department SET
departmentName='CIVIL' WHERE sno=4";
            int result=stmt.executeUpdate(sql);
            System.out.println("result "+result);
            ResultSet rs=stmt.executeQuery("select * from
department");
            while(rs.next()) {
                System.out.println(rs.getInt(1)+"
"+rs.getInt(2)+" "+rs.getString(3));
            }
            conn.close();
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
}

```



```

Problems Javadoc Declaration Console
<terminated> JDBCExample [Java Application] C:\Users\personal\Downloads\er
Loading class 'com.mysql.jdbc.Driver'. This is deprecated.
result 1
1 1 CSE
3 2 MECH
2 3 ECE
4 20 CIVIL
5 23 ENG
7 34 CHE

```