

ASSIGNMENT-3

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COURSE:MODERN APPLICATION DEVELOPMENT(JAVA
SPRING BOOT)

Q)IMPLEMENT JDBC USING JAVA

1)USING CREATE STATEMENT

CODE:

```
import java.sql.*;
public class JDBCEXAMPLE {

    public static void main(String[] args)
    {
        try
        {
            //1.registering the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2.connection
            Connection
            conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/example1","ro
            ot","VISH7L@mysql");

            //3.statement
            Statement stmt=conn.createStatement();

            //4.execute query
            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();
        }
    }
}
```

SCREENSHOTS:

```
//VISHAL E
//20BCCE2670
import java.sql.*;
public class JDBCEXAMPLE {

    public static void main(String[] args)
    {
        try
        {
            //1.registering the driver
            Class.forName("com.mysql.jdbc.Driver");
            //2.connection
            Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/example1","root","VISH7L@mysql");

            //3.statement
            Statement stmt=conn.createStatement();

            //4.execute query
            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();
        }
    }
}
```

OUTPUT:

```
Console x
<terminated> JDBCEXAMPLE [Java Application] C:\Users\VISHAL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.2.v20220201-1208\jre\bin\javaw.exe (04-Jun-2023, 9:14:10 am - 9:14:27 am) (pid: 9836)
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI
1 1 CSE
2 2 ECE
3 3 CIVIL
4 4 MECH
5 5 CSE
```

2)USING PREPARED STATEMENT:

CODE:

```
import java.sql.*;
public class JDBC_PS {

    public static void main(String[] args)
    {
        try
        {

            Class.forName("com.mysql.jdbc.Driver");
            //2.connection
            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/example1","root","VISH7L@mysql");

            PreparedStatement stmt=conn.prepareStatement("Insert into
department values(?,?,?)");
            stmt.setInt(1,6);
            stmt.setInt(2,6);
            stmt.setString(3,"CSE");
            int result=stmt.executeUpdate();
            if(result==1)
            {
                System.out.println(result+" DATA INSERTED");
            }
            else
            {
                System.out.println("DATA NOT INSERTED");
            }
            conn.close();

        }

        catch(Exception e)
        {
            e.printStackTrace();
        }

    }
}
```

SCREENSHOTS:

```
1 import java.sql.*;
2 public class JDBC_PS {
3
4     public static void main(String[] args)
5     {
6         try
7         {
8             Class.forName("com.mysql.jdbc.Driver");
9             //2.connection
10            Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/example1","root","VISH7L@mysql");
11
12
13            PreparedStatement stmt=conn.prepareStatement("Insert into department values(?,?,?)");
14            stmt.setInt(1,6);
15            stmt.setInt(2,6);
16            stmt.setString(3,"CSE");
17            int result=stmt.executeUpdate();
18            if(result==1)
19            {
20                System.out.println(result+" DATA INSERTED");
21            }
22            else
23            {
24                System.out.println("DATA NOT INSERTED");
25            }
26        }
27        conn.close();
28
29    }
30
31    catch (Exception e)
32    {
33        e.printStackTrace();
34    }
35
36
37
38 }
```

OUTPUT:

```
Console x
<terminated> JDBC_PS [Java Application] C:\Users\VISHAL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (04-Jun-2023, 10:20:02 am - 10:20:08 am) [pid: 18380]
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI
1 DATA INSERTED
```

Q3)JDBC USING PREPARED STATEMENT AND SCANNER

CODE:

```
import java.sql.*;
import java.util.Scanner;
public class JDBC_PS1
{
    public static void main(String args[]) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/example1", "root",
"VISH7L@mysql");
            PreparedStatement stmt =
conn.prepareStatement("insert into student values(?,?,?,?,?)");
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter the sno");
            int sno=sc.nextInt();
            stmt.setInt(1, sno);
            System.out.println("Enter the departmentid");
            int DepartmentId=sc.nextInt();
            stmt.setInt(2, DepartmentId);
            System.out.println("please enter the student id");
            int sid=sc.nextInt();
            stmt.setInt(3, sid);
            System.out.println("please enter the student
name");
            String sname=sc.next();
            stmt.setString(4,sname);
            System.out.println("please enter the address");
            String add=sc.next();
            stmt.setString(5,add);
            int result = stmt.executeUpdate();
            if(result==1)
            {
                System.out.println(result+" DATA INSERTED");
            }
            else
            {
                System.out.println("DATA NOT INSERTED");
            }
            conn.close();
        }
        catch (Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

SCREENSHOT:

```
1 import java.sql.*;
2 import java.util.Scanner;
3 public class JDBC_PS1
4 {
5     public static void main(String args[]) {
6         try {
7
8             Class.forName("com.mysql.jdbc.Driver");
9             Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/example1", "root", "VISH7L@mysql");
10            PreparedStatement stmt = conn.prepareStatement("insert into student values(?, ?, ?, ?, ?)");
11            Scanner sc = new Scanner(System.in);
12            System.out.println("Enter the sno");
13            int sno = sc.nextInt();
14            stmt.setInt(1, sno);
15            System.out.println("Enter the departmentid");
16            int DepartmentId = sc.nextInt();
17            stmt.setInt(2, DepartmentId);
18            System.out.println("please enter the student id");
19            int sid = sc.nextInt();
20            stmt.setInt(3, sid);
21            System.out.println("please enter the student name");
22            String sname = sc.next();
23            stmt.setString(4, sname);
24            System.out.println("please enter the address");
25            String add = sc.next();
26            stmt.setString(5, add);
27            int result = stmt.executeUpdate();
28            if(result==1)
29            {
30                System.out.println(result+" DATA INSERTED");
31            }
32            else
33            {
34                System.out.println("DATA NOT INSERTED");
35            }
36            conn.close();
37        }
38    }
39    catch (Exception e)
40    {
41        e.printStackTrace();
42    }
43 }
44 }
45
46
```

OUTPUT:

```
Console x
<terminated> JDBC_PS1 [Java Application] C:\Users\VISHAL\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. Th
Enter the sno
5
Enter the departmentid
5
please enter the student id
5
please enter the student name
ABC
please enter the address
CHE
1 DATA INSERTED
```