

15CSE376

14.08.2020

Net Centric Programming Laboratory - JDBC**Name: Sanjay Tharagesh R. S.****Duration: 2 hours****Roll. No: CB.EN.U4CSE17453****Max. marks: 20****Evaluation scheme:**

Use of appropriate fields in registration form : 5 Marks

Successful insertion of contents in table : 10 Marks

Exception Handling : 5 Marks

1. Write JDBC code to store the User registration details received in Lab Session II Exercise into a table using Prepared Statement Object.

Particulars	Max Marks	Marks Awarded
Use of appropriate fields in registration form	5	
Successful insertion of contents in table	10	
Exception Handling	5	

Signature of the Faculty**CODE AND SCREENSHOTS ARE ATTACHED FROM PAGE 2**

JDBC JAVA Code

```
import java.util.*;
import java.sql.*;

public class Prepared_stmt {
    public static boolean validate(String p) {
        int uc = 0;
        int lc = 0;
        int num = 0;
        int l = p.length();
        for(int i=0; i<p.length(); i++) {
            if(Character.isDigit(p.charAt(i)))
                num++;
            else if(Character.isUpperCase(p.charAt(i)))
                uc++;
            else if(Character.isLowerCase(p.charAt(i)))
                lc++;
        }
        if(l>=8 && uc>0 && lc>0 && num>1)
            return true;
        else
            return false;
    }

    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            String path_to_db = "jdbc:mysql://localhost:3306/NCP";
            String username = "root";
            String password = "root";
            Connection con = DriverManager.getConnection(path_to_db,
username, password);
            Scanner sc = new Scanner(System.in);

            String questions[] = new String[]{
                "First Name",
                "Last Name",
                "Set a new password (Must contain at least one
number and one uppercase and lowercase letter, and at least 8 or more characters)",
                "Gender (male/female/other)",
                "Mode of Commute",
                "DOB (YYYY-MM-DD)",
                "Email",
                "Photo URL",
                "Number of family members",
                "Portfolio URL",
                "Confirm all details (y/n)"
            };

            String answers[] = new String[questions.length];

            System.out.println("Enter the below details");
            for(int i=0; i<questions.length; i++) {
                System.out.println(questions[i] + ": ");
                answers[i] = sc.nextLine();
            }
        }
    }
}
```

```

    }
    try {
        if(!validate(answers[2])) {
            throw new SecurityException("TOO HIGH");
        }
    }
    catch(Exception e) {
        System.out.println("Please enter correct details");
        con.close();
        sc.close();
        return;
    }
    PreparedStatement stmt = con.prepareStatement("INSERT INTO
registration VALUES(?,?,?,?,?,?,?,?,?,?)");
    for(int i=0; i<answers.length-1; i++) {
        if(questions[i] == "Number of family members")
            stmt.setInt(i+1, Integer.parseInt(answers[i]));
        else
            stmt.setString(i+1, answers[i]);
    }
    int rows_updated = stmt.executeUpdate();
    System.out.println(rows_updated + " records inserted");

    Statement dis = con.createStatement();
    ResultSet rs = dis.executeQuery("SELECT * FROM registration");
    while(rs.next()) {
        for(int i=1; i<=10; i++)
            System.out.print(rs.getString(i) + " ");
        System.out.println("");
    }

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

}

}

```

OUTPUT

Enter the below details

First Name:

saiharsha

Last Name:

B

Set a new password (Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters):

123ABCasd

Gender (male/female/other):

male

Mode of Commute:

bike

DOB (YYYY-MM-DD):

1234-11-1

Email:

saiharsha@gmail.com

Photo URL:

www.harshapic.com/photo.jpg

Number of family members:

5

Portfolio URL:

www.harshadev.com

Confirm all details (y/n):

y

1 records inserted

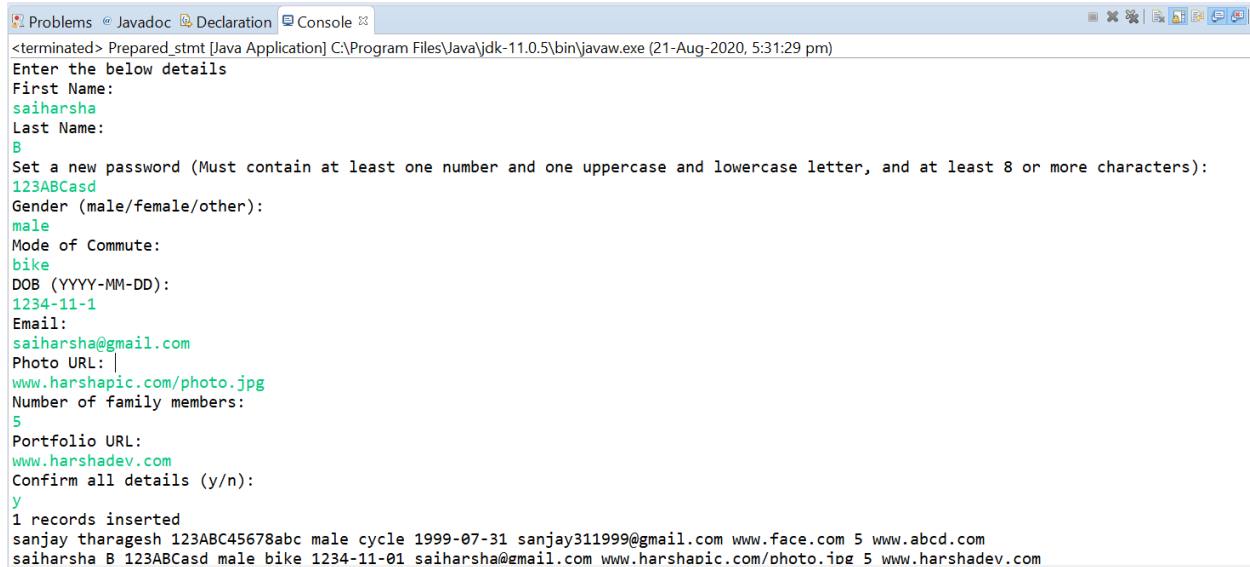
sanjay tharagesh 123ABC45678abc male cycle 1999-07-31 sanjay311999@gmail.com

www.face.com 5 www.abcd.com

saiharsha B 123ABCasd male bike 1234-11-01 saiharsha@gmail.com

www.harshapic.com/photo.jpg 5 www.harshadev.com

OUTPUT SCREENSHOT



```
<terminated> Prepared_stmt [Java Application] C:\Program Files\Java\jdk-11.0.5\bin\javaw.exe (21-Aug-2020, 5:31:29 pm)
Enter the below details
First Name:
saiharsha
Last Name:
B
Set a new password (Must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters):
123ABCasd
Gender (male/female/other):
male
Mode of Commute:
bike
DOB (YYYY-MM-DD):
1234-11-1
Email:
saiharsha@gmail.com
Photo URL: |
www.harshapic.com/photo.jpg
Number of family members:
5
Portfolio URL:
www.harshadev.com
Confirm all details (y/n):
y
1 records inserted
sanjay tharagesh 123ABC45678abc male cycle 1999-07-31 sanjay311999@gmail.com www.face.com 5 www.abcd.com
saiharsha B 123ABCasd male bike 1234-11-01 saiharsha@gmail.com www.harshapic.com/photo.jpg 5 www.harshadev.com
```

MYSQL WORKBENCH OUTPUT

Limit to 100 rows

```

4
5 • CREATE TABLE registration (
6     fname VARCHAR(50),
7     lname VARCHAR(50),
8     pword VARCHAR(30),
9     gender VARCHAR(10),
10    vehicle VARCHAR(10),
11    dob DATE,
12    email VARCHAR(100),
13    photo VARCHAR(100),
14    family_members INT,
15    portfolio VARCHAR(100)
16 );
17 • select * from registration;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [\[icon\]](#)

	fname	lname	pword	gender	vehide	dob	email	photo	far
▶	sanjay	tharagesh	123ABC45678abc	male	cycle	1999-07-31	sanjay311999@gmail.com	www.face.com	5
	saiharsha	B	123ABCasd	male	bike	1234-11-01	saiharsha@gmail.com	www.harshapic.com/photo.jpg	5