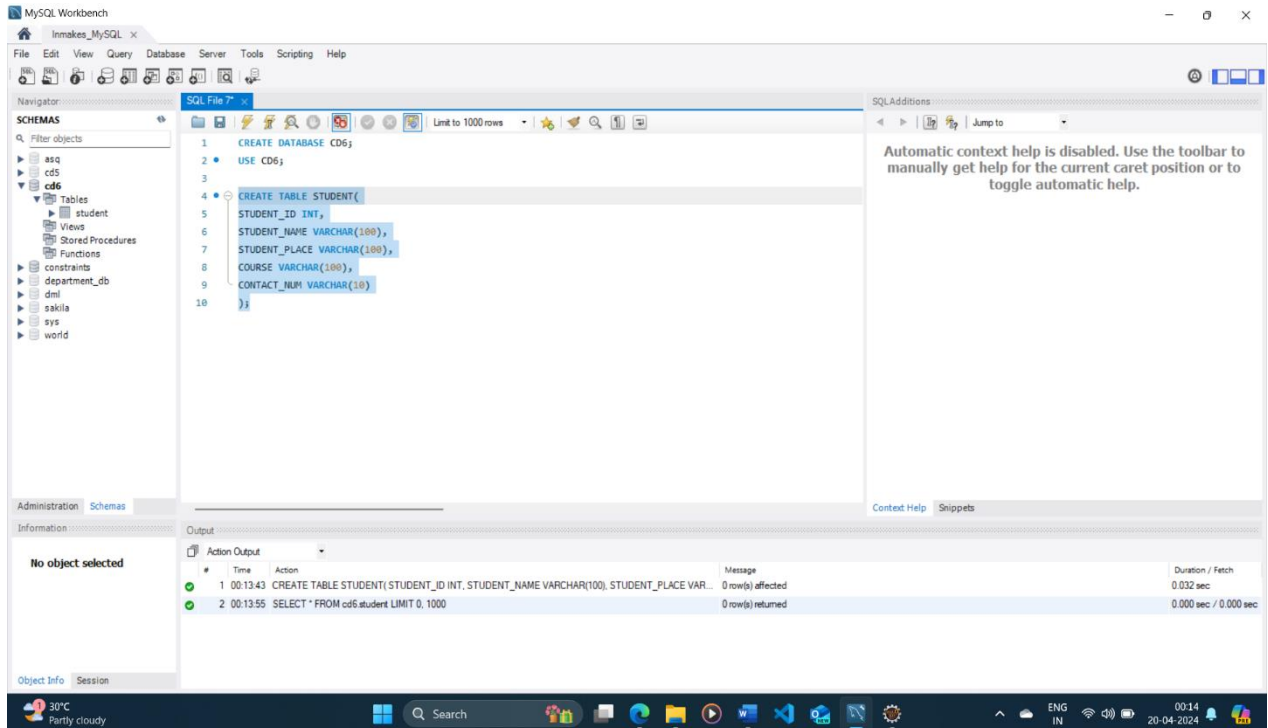


**NAME: A.S.MOHAMED MUBEEN**

## **CODINC CHALLENGE VI**

1.create a Basic CRUD (create , read ,update , delete) operation Using JDBC with Mysql

create a student table (Student\_id, Student\_name, Student\_place, course, contact\_num)



insert student details into the table

```
package com.codingchallenge6;

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

public class Studentinsert {

    public static void main(String[] args) {

        int student_id;
        String student_name, student_place, course, contact_num;
        Scanner scn = new Scanner(System.in);

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/cd6", "root",
            "spectratec@22");
```

```

        PreparedStatement ps = con.prepareStatement("INSERT INTO
STUDENT (STUDENT_ID, STUDENT_NAME, STUDENT_PLACE, COURSE, CONTACT_NUM)
VALUES (?, ?, ?, ?, ?)");

        System.out.println("Enter the number of records to insert:");
        int numRecords = scn.nextInt();

        for (int i = 0; i < numRecords; i++) {
            System.out.println("Enter details for student " + (i + 1) +
":");

            System.out.println("Enter the student id:");
            student_id = scn.nextInt();

            System.out.println("Enter the student name:");
            student_name = scn.next();

            System.out.println("Enter the student place:");
            student_place = scn.next();

            System.out.println("Enter the course:");
            course = scn.next();

            System.out.println("Enter the contact number:");
            contact_num = scn.next();

            ps.setInt(1, student_id);
            ps.setString(2, student_name);
            ps.setString(3, student_place);
            ps.setString(4, course);
            ps.setString(5, contact_num);

            ps.addBatch();
        }

        int[] batchCounts = ps.executeBatch();

        int totalRecordsInserted = 0;
        for (int count : batchCounts) {
            if (count > 0) {
                totalRecordsInserted += count;
            }
        }

        System.out.println(totalRecordsInserted + " records inserted
successfully.");

        ps.close();
        con.close();

    } catch (ClassNotFoundException | SQLException e) {
        e.printStackTrace();
    }
}

```

## Output:

```
Enter the number of records to insert:
4
Enter details for student 1:
Enter the student id:
101
Enter the student name:
akash
Enter the student place:
chennai
Enter the course:
java
Enter the contact number:
8976543289
Enter details for student 2:
Enter the student id:
102
Enter the student name:
gayuthri
Enter the student place:
salem
Enter the course:
java
Enter the contact number:
9812345678
Enter details for student 3:
Enter the student id:
103
Enter the student name:
karthik
Enter the student place:
madurai
Enter the course:
java
Enter the contact number:
7896543789
Enter details for student 4:
Enter the student id:
104
Enter the student name:
lokesh
Enter the student place:
coachin
Enter the course:
java
Enter the contact number:
6789543278
4 records inserted successfully.
```

get all the student details from student table

```
package com.codingchallenge6;

import java.sql.*;
public class Studentselect {

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

```

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/cd6","root","s
pectratec@22");

            Statement stmt=con.createStatement();

            ResultSet rs=stmt.executeQuery("SELECT * FROM STUDENT");

            System.out.println("STUDENT_ID \t STUDENT_NAME \t
STUDENT_PLACE \t COURSE \t CONTACT_NUM ");
            System.out.println("-----
-----");

            while(rs.next()) {

                System.out.println(rs.getInt(1) + "\t" +
rs.getString(2) + "\t" + rs.getString(3)
                + "\t" + rs.getString(4) + "\t" + rs.getString(5));

            }

            rs.close();
            con.close();
        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }
}

```

Output:

STUDENT_ID	STUDENT_NAME	STUDENT_PLACE	COURSE	CONTACT_NUM
101	akash	chennai	java	8976543289
102	gayuthri	saalem	java	9812345678
103	karthik	madurai	java	7896543789
104	lokesk	coachin	java	6789543278

update details with their place or course

```

package com.codingchallenge6;

import java.sql.*;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Scanner;
public class Studentupdate {

    public static void main(String[] args) {

        String course,student_place;
        int count=0;
        Scanner scn=new Scanner(System.in);
    }
}

```

```

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/cd6","root","s
pectratec@22");

            PreparedStatement ps=con.prepareStatement("UPDATE STUDENT
SET COURSE=? WHERE STUDENT_PLACE=?");

            System.out.println("Enter the student_place if you want
to update:");
            student_place=scn.next();

            System.out.println("Enter the course name:");
            course=scn.next();

            ps.setString(1, course);
            ps.setString(2, student_place);

            count=ps.executeUpdate();
            if(count!=0) {
                System.out.println(count+" Update Record ....");
            }
            else {
                System.out.println(" Update Record  Failed!!!!");
            }

            ps.close();
            con.close();

        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

}

```

## Output:

```

Enter the student_place if you want to update:
saalem
Enter the course name:
datascience
1 Update Record ....

```

delete student form table by sudent\_id

```

package com.codingchallenge6;

import java.sql.Connection;
import java.sql.DriverManager;

```

```

import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Scanner;

public class Studentdelete {

    public static void main(String[] args) {

        int student_id;
        int count=0;
        Scanner scn=new Scanner(System.in);

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/cd6","root","s
pectratec@22");

            PreparedStatement ps=con.prepareStatement("DELETE FROM
STUDENT WHERE STUDENT_ID=?");

            System.out.println("Enter the Student ID to delete:");
            student_id=scn.nextInt();

            ps.setInt(1, student_id);

            count=ps.executeUpdate();

            if(count!=0) {
                System.out.println(count+" Record Deleted....");
            }
            else {
                System.out.println(" Record Deletion Failed!!!!");
            }

            ps.close();
            con.close();

        } catch (ClassNotFoundException | SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

}

```

## Output:

```

Enter the Student ID to delete:
104
1 Record Deleted....

```