Dt : 1/10/2024(Day-6)

Ex:

Construct JDBC Application to read Customer-details from Console input and insert into DB Table(Customer67)

Program : DBCon2.java

```
package test;
import java.util.*;
import java.sql.*;
public class DBCon2 {
        public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    try(s;){
        System.out.println("Enter the Cust-phNo:");
        long phNo = Long.parseLong(s.nextLine());
        System.out.println("Enter the Cust-Name:");
        String cName = s.nextLine();
        System.out.println("Enter the Cust-City:");
        String cCity = s.nextLine();
        System.out.println("Enter the Cust-MailId:");
        String mId = s.nextLine();

        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con = DriverManager.getConnection
                        ("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
```

```
        Statement stm = con.createStatement();
        int k = stm.executeUpdate
        ("insert into Customer67 values("+phNo+",'"+cName+"','"+cCity+"','"+mId+"')");
        System.out.println("The value in k : "+k);
        if(k>0) {
                System.out.println("Customer details inserted Successfully....");
        }
        con.close();
    }
    catch(SQLIntegrityConstraintViolationException sicve) {
        System.out.println("Customer details already available....");
    }catch(Exception e) {
         System.out.println(e.toString());
    }
        }
}
```

o/p:

Enter the Cust-phNo:

3434341234

Enter the Cust-Name:

TYU

Enter the Cust-City:

Hyd

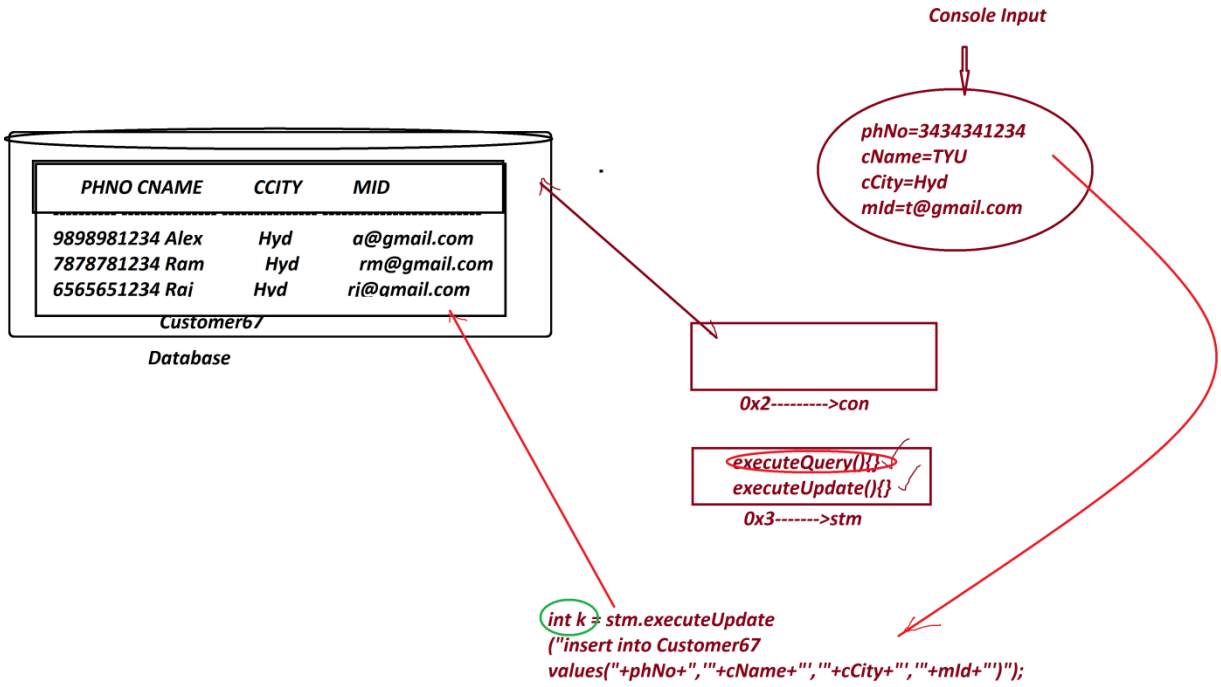
Enter the Cust-MailId:

T@gmail.com

The value in k : 1

Customer details inserted Successfully....

Diagram:



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Ex:

Construct JDBC Application to display Customer details based on PhoneNo.

Program : DBCon3.java

```
package test;

import java.util.*;

import java.sql.*;
```

```
public class DBCon3 {
        public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    try(s;){
        System.out.println("Enter the Cust-PhNo to display details:");
        long phNo = s.nextLong();

        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection con = DriverManager.getConnection
                ("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
        Statement stm = con.createStatement();
        ResultSet rs = stm.executeQuery
                ("select * from Customer67 where phno="+phNo+"");
        if(rs.next()) {
            System.out.println(rs.getLong(1)+"\t"+rs.getString(2)+"\t"+
        rs.getString(3)+"\t"+rs.getString(4));
        }else {
            System.out.println("Invalid Customer Phone No....");
        }
        con.close();
    }catch(Exception e) {
        System.out.println(e.toString());
    }
        }
}
```

o/p:

Enter the Cust-PhNo to display details:

9898981234

9898981234 Alex Hyd a@gmail.com

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Assignment-2:

Construct JDBC Application read BookDetails from Console Input and insert into DB Table BookDetails67.

Assignment-3:

Construct JDBC Application to display BookDetails based on bookCode.

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**imp*

2.PreparedStatement:

=>'PreparedStatement' is an interface from java.sql package and which is used to execute normal queries with IN-Parameters.

=>we use prepareStatement()-method from 'Connection-Interface' to create implementation object for 'PreparedStatement-Interface'

=>This prepareStatement()-method internally holding 'Anonymous Local InnerClass as implementation class of PreparedStatement-Interface'.

Method Signature of prepareStatement():

public abstract java.sql.PreparedStatement prepareStatement(java.lang.String)throws java.sql.SQLException;

syntax:

PreparedStatement ps = con.prepareStatement("query-structure");

=>The following are two important methods of PreparedStatement:

(i)executeQuery()

(ii)executeUpdate()

(i)executeQuery():

=>executeQuery()-method is used to execute select queries.

Method Signature of executeQuery():

public abstract java.sql.ResultSet executeQuery() throws java.sql.SQLException;

syntax:

ResultSet rs = ps.executeQuery();

(ii)executeUpdate():

=>executeUpdate()-method is used to execute Non-Select queries.

Method Signature of executeUpdate():

public abstract int executeUpdate() throws java.sql.SQLException;

syntax:

int k = ps.executeUpdate();
