Dt : 8/10/2024(Day-13)

Construct and Execute IN-OUT Parameter Procedure:

step-1 : Create Procedure to display BankCustomer details based on accNo.

create or replace procedure RetrieveDetails67

(acno number,nm OUT varchar2,bl OUT number,atype OUT varchar2,cty OUT varchar2,

st OUT varchar2,pcode OUT number,md OUT varchar2,pno OUT number) is

begin

 select name,bal,acctype into nm,bl,atype from BankCustomer67 where accno=acno;

 select city,state,pincode into cty,st,pcode from CustAddress67 where accno=acno;

 select mid,phno into md,pno from CustContact67 where accno=acno;

end;

/

step-2 : Construct JDBC Application to execute procedure.

Program : DBCon9.java

```java
package test;
import java.util.*;
import java.sql.*;
public class DBCon9 {
     public static void main(String[] args) {
       Scanner s = new Scanner(System.in);
       try(s;){
         Class.forName("oracle.jdbc.driver.OracleDriver");
         Connection con = DriverManager.getConnection

("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
         CallableStatement cs = con.prepareCall
                  ("{call RetrieveDetails67(?,?,?,?,?,?,?,?,?)}");
         System.out.println("Enter the Cust-AccNo to display details:");
```

```java
            long accNo = Long.parseLong(s.nextLine());
            cs.setLong(1, accNo);
            cs.registerOutParameter(2,Types.VARCHAR);
            cs.registerOutParameter(3, Types.FLOAT);
            cs.registerOutParameter(4, Types.VARCHAR);
            cs.registerOutParameter(5, Types.VARCHAR);
            cs.registerOutParameter(6, Types.VARCHAR);
            cs.registerOutParameter(7, Types.INTEGER);
            cs.registerOutParameter(8, Types.VARCHAR);
            cs.registerOutParameter(9, Types.BIGINT);
            cs.execute();
            System.out.println("-------BankCustomer Details------");
            System.out.println("Cust-AccNo:"+accNo);
            System.out.println("Cust-Name:"+cs.getString(2));
            System.out.println("Cust-Bal:"+cs.getFloat(3));
            System.out.println("Cust-AccType:"+cs.getString(4));
            System.out.println("Cust-City:"+cs.getString(5));
            System.out.println("Cust-State:"+cs.getString(6));
            System.out.println("Cust-PinCode:"+cs.getInt(7));
            System.out.println("Cust-MailId:"+cs.getString(8));
            System.out.println("Cust-PhoneNo:"+cs.getLong(9));

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

o/p:

Enter the Cust-AccNo to display details:

6123456

-------BankCustomer Details------

Cust-AccNo:6123456

Cust-Name:Alex
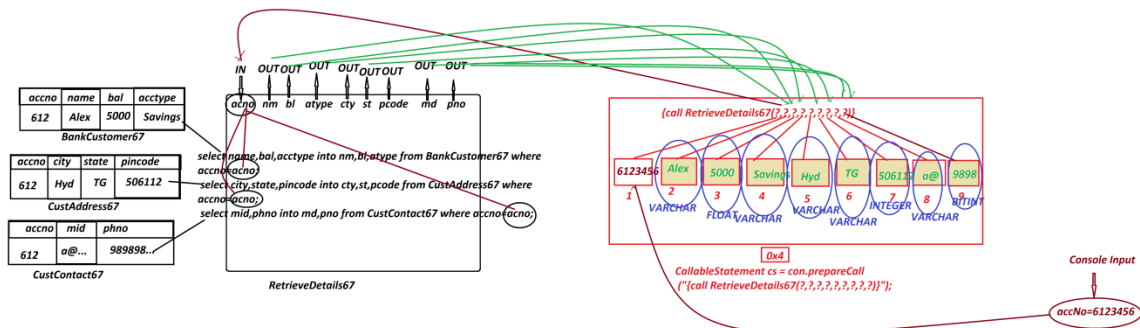
Cust-Bal:5000.0

Cust-AccType:Savings

Cust-City:Hyd

Cust-State:TG

Cust-PinCode:506112

Cust-MailId:alex@gmail.com

Cust-PhoneNo:9898981400

Diagram:

Assignment-1:

step-1 : Construct the following tables related to Student

    StuDetails67(rollno,name,branch)

    StuAddress67(rollno,city,state,pincode)

    StuContact67(rollno,mid,phno)

    StuMarks67(rollno,sub1,sub2,sub3,sub4,sub5,sub6)

    StuResult67(rollno,totmarks,per,result)

Step-2 : Construct Procedure to insert Student-data

step-3 : Construct JDBC application to execute IN-Parameter Procedure

Note:

Read(Input) : rollNo,name,branch,city,state,pincode,mid,phno,6-sub Marks

Calculate   : totMarks,per,result

Conditions:

=>All Subject marks must be in b/w 0 to 100,then only perform calculations and

insert data to database table.

=>If any subject marks are in b/w 0 to 34 then result must be "Fail"

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Assignment-2:

step-1 : Construct Procedure to display Student data based on rollNo.

step-2 : Construct JDBC Application to execute IN-OUT Parameter Procedure

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faq:

define 'Function'?

=>'Function' is also a set-of-queries executed at-a-time on database product and

after execution Function will return the value.

=>we use 'return' statement to return the value after function execution.

Structure of Function:

create or replace function Function_name

(para_list) return data_type as var data_type;

begin

//query-1

//query-2

```
    …

    //query-n

      return var;

end;

/
```

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