Dt : 14/11/2023

Construct and Execute Stored Procedure:

step-1 : Create the following DB tables from SQLCommandLine

EmpData57(eid,ename,edesg)

EmpSalary57(eid,bsal,totsal)

```
create table EmpData57(eid varchar2(10),ename varchar2(15),
edesg varchar2(10),primary key(eid));

create table EmpSalary57(eid varchar2(10),bsal number(10),
totsal number(10,2),primary key(eid));
```

step-2 : Construct Stored Procedure to insert Empdatails to DB-Tables

```
create or replace procedure InsertDetails57
(id varchar2,name varchar2,desg varchar2,bsl number,tsl number) is
begin
  insert into EmpData57 values(id,name,desg);
  insert into EmpSalary57 values(id,bsl,tsl);
end;
```

/

step-3 : Construct JDBC Application to execute Procedure

Layout:

Program : DBCon8.java

```
package test;

import java.sql.*;

import java.util.*;

public class DBCon8 {

    public static void main(String[] args) {

    Scanner s = new Scanner(System.in);

    try(s;){

        try {

            Class.forName("oracle.jdbc.driver.OracleDriver");

            Connection con = DriverManager.getConnection

            ("jdbc:oracle:thin:@localhost:1521:xe",

                    "system","manager");

            CallableStatement cs = con.prepareCall
```

```java
        ("{call InsertDetails57(?,?,?,?,?)}");


        //read data into Local Variables

        System.out.println("Enter the empId:");

        String eId = s.nextLine();

        System.out.println("Enter the empName:");

        String eName = s.nextLine();

        System.out.println("Enter the empDesg:");

        String eDesg = s.nextLine();

        System.out.println("Enter the empBSal:");

int bSal = s.nextInt();

float totSal = bSal+(0.93F*bSal)+(0.61F*bSal);


//Add data to CallableStatement Object

cs.setString(1, eId);

cs.setString(2, eName);

cs.setString(3, eDesg);

cs.setInt(4, bSal);

cs.setFloat(5, totSal);


cs.execute();//Procedure executed with values

System.out.println("EmpDetails inserted Successfully...");
```

```
        }catch(Exception e) {e.printStackTrace();}
    }//try with resource
        }
}
```

o/p:

Enter the empId:

A111

Enter the empName:

Raj

Enter the empDesg:

SE

Enter the empBSal:

120000

EmpDetails inserted Successfully...

DBTables:

EID   ENAME   EDESG

---------- --------------- ----------

A111   Raj   SE

EID   BSAL   TOTSAL

--------- ---------- ----------

A111   120000   304800

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Construct and Execute Stored Procedure to Display EmpDetails based on EmpId:

Layout:

step-1 : Construct Stored Procedure to retrieve EmpDetails

create or replace procedure RetrieveDetails57

(id varchar2,name OUT varchar2,desg OUT varchar2,bsl OUT number,

tsl OUT number) is

begin

* select ename,edesg into name,desg from EmpData57 where eid=id;*

select bsal,totsal into bsl,tsl from EmpSalary57 where eid=id;

end;

/

step-2 : Construct JDBC Application to execute Procedre

Program : DBCon9.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;){

        try {

            Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection con = DriverManager.getConnection

        ("jdbc:oracle:thin:@localhost:1521:xe",

                "system","manager");

        CallableStatement cs = con.prepareCall

        ("{call RetrieveDetails57(?,?,?,?,?)}");

```java
        System.out.println("Enter the EmpId:");

        String eId = s.nextLine();

        cs.setString(1, eId);

        cs.registerOutParameter(2, Types.VARCHAR);

        cs.registerOutParameter(3, Types.VARCHAR);

        cs.registerOutParameter(4, Types.INTEGER);

        cs.registerOutParameter(5, Types.FLOAT);


        cs.execute();


        System.out.println("====EmpDetails====");

        System.out.println("EmpId:"+eId);

        System.out.println("EmpName:"+cs.getString(2));

        System.out.println("EmpDesg:"+cs.getString(3));

        System.out.println("EmpBSal:"+cs.getInt(4));

        System.out.println("EmpTotSal:"+cs.getFloat(5));

         }catch(Exception e) {e.printStackTrace();}
    }//try with resource

        }
}
o/p:
```

Enter the EmpId:

A111

====EmpDetails====

EmpId:A111

EmpName:Raj

EmpDesg:SE

EmpBSal:120000

EmpTotSal:304800.0

==