

**Dt : 23/1/2025**

**faq:**

**define Procedure?**

**=>Procedure is a set-of-queries executed on database product and which will not return any value.**

**(Procedure in SQL is NonReturn-Type)**

**=>Procedures are also known as Stored Procedures.**

**structure of Procedure:**

**create or replace procedure Procedure\_name**

**(para\_list) is**

**begin**

**query-1**

**query-2**

**...**

**end;**

**/**

**Types of Procedures:**

**=>According to JDBC,procedures are categorized into three types:**

**(i)IN-Parameter Procedures**

**(ii)OUT-Parameter Procedures**

**(iii)IN-OUT-Parameter Procedures**

**(i)IN-Parameter Procedures:**

**=>The Procedures which take the data from Java-Program and send to Database product are known as IN-Parameter Procedures.**

**(ii)OUT-Parameter Procedures:**

**=>The Procedures which take the data from Database product and send to Java-Program are known as OUT-Parameter Procedures.**

**(iii)IN-OUT-Parameter Procedures:**

**=>The Procedures which perform both operations are known as IN-OUT-Parameter Procedures.**

**\*imp**

**Creating and Executing Procedure(Stored Procedure):**

**step-1 : Create the following DB Tables**

**BankCustomer70(accno,name,bal,acctype)**

**CustAddress70(accno,city,state,pincode)**

**CustContact70(accno,mid,phno)**

**create table BankCustomer70(accno number(15),name varchar2(15),bal number(10,2),  
acctype varchar2(15),primary key(accno));**

**create table CustAddress70(accno number(15),city varchar2(15),state varchar2(15),  
pincode number(10),primary key(accno));**

```
create table CustContact70(accno number(15),mid varchar2(25),phno number(15),
primary key(accno));
```

**step-2 : Construct Procedure to insert Customer details**

**create or replace procedure CreateAccount70**

**(ano number,nm varchar2,bl number,atype varchar2,cty varchar2,st varchar2,pcode number,**  
**md varchar2,pno number) is**

**begin**

**insert into BankCustomer70 values(ano,nm,bl,atype);**

**insert into CustAddress70 values(ano,cty,st,pcode);**

**insert into CustContact70 values(ano,md,pno);**

**end;**

**/**

**step-3 : Construct JDBC application to execute procedure.**

**syntax:**

**CallableStatement cs = con.prepareCall**

**("{call CreateAccount70(?,?,?,?,?,?,?,?)});**

**Program : DBCon8.java**

```
package test;
import java.util.*;
import java.sql.*;
public class DBCon8 {
    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 CreateAccount70(?,?,?,?,?,?,?,?,?,?)}");
    System.out.println("Enter the AccNo:");
    Long accNo = Long.parseLong(s.nextLine());
    System.out.println("Enter the Cust-Name:");
    String name = s.nextLine();
    System.out.println("Enter the Cust-Bal:");
    float bal = Float.parseFloat(s.nextLine());
    System.out.println("Enter the Cust-AccType:");
    String accType = s.nextLine();
    System.out.println("Enter the Cust-City:");
    String city = s.nextLine();
    System.out.println("Enter the Cust-State:");
    String state = s.nextLine();
    System.out.println("Enter the Cust-PinCode:");
    int pinCode = Integer.parseInt(s.nextLine());
    System.out.println("Enter the Cust-MailId:");
    String mId = s.nextLine();
    System.out.println("Enter the Cust-PhoneNo:");
    Long phNo = Long.parseLong(s.nextLine());

    //Loading data to CallableStatement Object
    cs.setLong(1, accNo);
    cs.setString(2, name);
    cs.setFloat(3, bal);
    cs.setString(4, accType);
    cs.setString(5, city);
    cs.setString(6, state);
    cs.setInt(7, pinCode);
    cs.setString(8, mId);
    cs.setLong(9, phNo);

    cs.execute();//Procedure Executed...
    System.out.println("Customer Account created Successfully....");
} catch (Exception e) {
    e.printStackTrace();
}
}
}

```

**o/p:**

**Enter the AccNo:**

**123456**

**Enter the Cust-Name:**

**Alex**

**Enter the Cust-Bal:**

**1000**

**Enter the Cust-AccType:**

**Savings**

**Enter the Cust-City:**

**Hyd**

**Enter the Cust-State:**

**TG**

**Enter the Cust-PinCode:**

**506112**

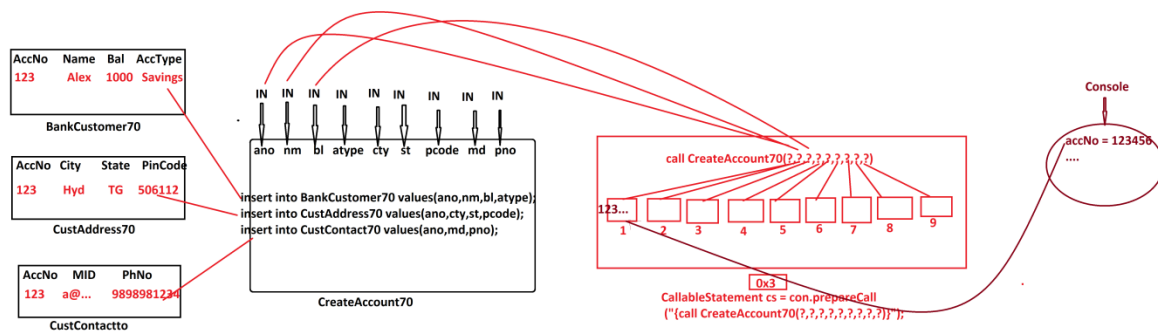
**Enter the Cust-MailId:**

**a@gmail.com**

**Enter the Cust-PhoneNo:**

**9898981234**

**Customer Account created Successfully....**



SQL> select \* from BankCustomer70;

ACCNO	NAME	BAL	ACCTYPE
123456	Alex	1000	Savings

SQL> select \* from CustAddress70;

ACCNO	CITY	STATE	PINCODE
123456	Hyd	TG	506112

SQL> select \* from CustContact70;

ACCNO	MID	PHNO
123456	a@gmail.com	9898981234

**SQL>**

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**Assignment:**

**step-1 : Create the following DB Tables**

***StuData70(rollno,name,branch)***

***StuAddress70(rollno,city,state,pincode)***

***StuContact70(rollno,mid,phno)***

***StuMarks70(rollno,sub1,sub2,sub3,sub4,sub5,sub6)***

***StuResult70(rollno,totmarks,per,result)***

**step-2 : Construct Procedure to insert Student details**

**step-3 : Construct JDBC Application to execute Procedure**

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