

**Dt : 15/11/2023**

**faq:**

**define registerOutParameter() method?**

**=>registerOutParameter() method will specify the type of value to be stored in Parameter-index-field**

**syntax:**

**cs.registerOutParameter(para\_index,Types.VARCHAR);**

**Note:**

**=>'java.sql.Types' is a class holding SQL-DataTypes and which are represented part of registerOutParameter() method.**

**Ex:**

**public static final int INTEGER;**

**public static final int BIGINT;**

**public static final int FLOAT;**

**public static final int VARCHAR;**

**...**

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**Assignment-1:**

**step-1 : Construct the following DB tables**

**CustData57(cid,cname)**

***CustAddress57(cid,city,state,pincode)***

***CustContact57(cid,mid,phno)***

***step-2 : Construct Stored Procedure to insert the data to DB tables***

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

***Assignment-2:***

***step-1 : Construct Stored Procedure to display Customer details based on  
CustId***

***step-2 : Construct JDBC Application to execute Procedure.***

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***Construct and Execute Functions:***

***step-1 : Construct Function to display Employee totSal based on empld.***

***create or replace function RetrieveTotSal57***

***(id varchar2) return number as tsl number;***

***begin***

```

select totals into tsl from EmpSalary57 where eid=id;

return tsl;

end;

/

```

**step-2 : Construct JDBC Application to execute function**

**Program : DBCon10.java**

```

package test;
import java.util.*;
import java.sql.*;
public class DBCon10 {
    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 ?:=RetrieveTotSal57(?)");
                System.out.println("Enter EmpId:");
                String eId = s.nextLine();
                cs.registerOutParameter(1, Types.FLOAT);
                cs.setString(2, eId);
                cs.execute();
                System.out.println("====Details====");
                System.out.println("Emp-Id: "+eId);
                System.out.println("Emp-
                TotSal: "+cs.getFloat(1));
            }
        }
    }
}

```

```

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

```

o/p:

Enter Empld:

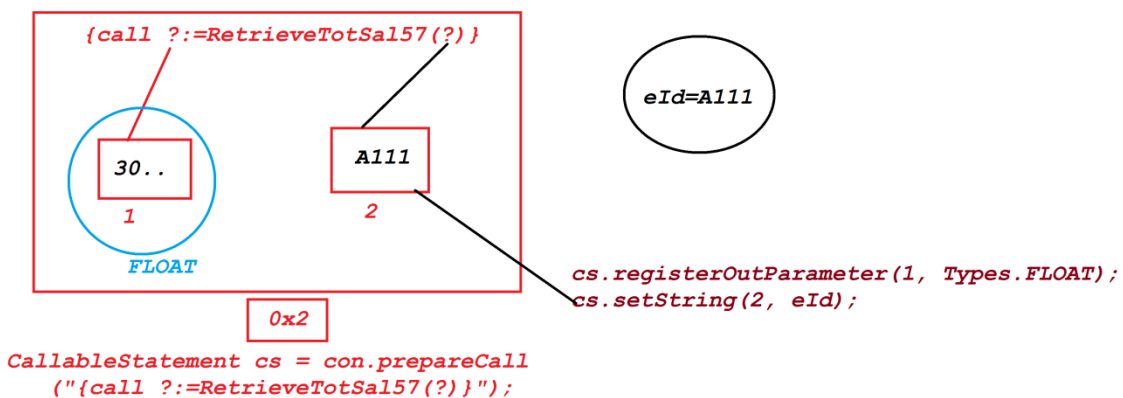
A111

====Details====

Emp-Id:A111

Emp-TotSal:304800.0

Diagram:



Assignment-3:

step-1 : Construct Function to retrieve PhoneNo based on CustId

## **step-2 : Construct JDBC Application to execute Function**

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### **Transaction Management in JDBC:**

#### **define Transaction?**

**=>set-of-statements executed on a resource or resources using ACID properties is known as Transaction.**

**A - Atomicity**

**C - Consistency**

**I - Isolation**

**D - Durability**

**A - Atomicity**

**=>Atomicity means all statements in the Transaction are completed Successfully or not happened Successfully**

**C - Consistency**

**=>The resource state which is selected by the user,remains same until the transaction is completed is known as Consistency.**

**I - Isolation**

=>The process of running multiple users independently is known as Isolation process.

#### D - Durability

=>The process of storing Transaction details and making it available to user,is known as Durability.

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