Ex 1 : CONTROL STRUCTURE EXERCISE

**REM   Script: pl-sql practice**

**REM   this is the code for the control structure exercise**

**CREATE or Replace Procedure  discount is**

**ID Customers.CustomerID%type;**

**dob Customers.DOB%type;**

**amount Customers.Balance%type;**

**Cursor c\_Customer is Select CustomerID, DOB,Balance  from Customers;**

**BEGIN**

**open c\_Customer;**

**loop**

**fetch c\_customer into ID,dob,amount ;**

**exit when c\_customer%notfound;**

**if(floor(months\_between(SYSDATE,dob)/12)>=60)then**

**amount:=0.99\*amount;**

**UPDATE Customers set Balance = amount WHERE CustomerID=ID;**

**end if;**

**DBMS\_OUTPUT.PUT\_LINE(ID || '   ' || dob || '   ' || amount);**

**end loop ;**

**close c\_customer;**

**END;**

**/**

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**BEGIN**

**discount;**

**END;**

**/**

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**Alter table  Customers**

**add IsVIP varchar2(5);**

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**Alter table  Customers**

**Modify IsVIP varchar2(5) default 'FALSE';**

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**UPDATE Customers set IsVIP='FALSE' WHERE IsVIP is NULL;**

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**Begin**

**for custo\_rec in (Select CustomerId , Balance ,LastModified from Customers)**

**loop**

**if(custo\_rec.Balance>10000) then**

**Update Customers set IsVIP='TRUE', LastModified=SYSDATE where CustomerID=custo\_rec.CustomerID;**

**END IF;**

**END LOOP ;**

**END;**

**/**

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**SELECT \* FROM Customers;**

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**DECLARE**

**CURSOR c\_due\_loans IS**

**SELECT l.LoanID, c.Name AS CustomerName, l.LoanAmount, l.EndDate**

**FROM Loans l**

**JOIN Customers c ON l.CustomerID = c.CustomerID**

**WHERE l.EndDate BETWEEN SYSDATE AND SYSDATE + 30;**

**loan\_rec c\_due\_loans%ROWTYPE;**

**BEGIN**

**-- Loop through each loan due soon**

**FOR loan\_rec IN c\_due\_loans LOOP**

**DBMS\_OUTPUT.PUT\_LINE(**

**'Reminder: Dear ' || loan\_rec.CustomerName ||**

**', your loan (Loan ID: ' || loan\_rec.LoanID ||**

**') of amount ₹' || loan\_rec.LoanAmount ||**

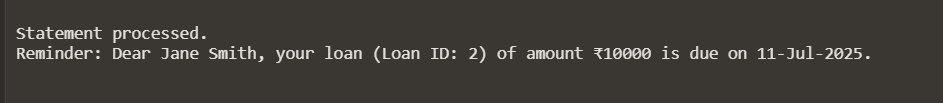
**' is due on ' || TO\_CHAR(loan\_rec.EndDate, 'DD-Mon-YYYY') || '.'**

**);**

**END LOOP;**

**END;**

**/**

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