

Control Structures:

Database Initialization:

```
CREATE TABLE Customers (  
    CustomerID NUMBER PRIMARY KEY,  
    Name VARCHAR2(50),  
    Age NUMBER,  
    Balance NUMBER(10,2),  
    IsVIP CHAR(1) DEFAULT 'N'  
);
```

```
CREATE TABLE Loans (  
    LoanID NUMBER PRIMARY KEY,  
    CustomerID NUMBER,  
    InterestRate NUMBER(5,2),  
    DueDate DATE,  
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)  
);
```

```
INSERT INTO Customers VALUES (1, 'Manan', 65, 15200, 'N');  
INSERT INTO Customers VALUES (2, 'Raya', 45, 8000, 'N');  
INSERT INTO Customers VALUES (3, 'daya', 70, 13000, 'N');
```

```
INSERT INTO Loans VALUES (101, 1, 7.5, SYSDATE + 10);  
INSERT INTO Loans VALUES (102, 2, 6.5, SYSDATE + 40);  
INSERT INTO Loans VALUES (103, 3, 8.0, SYSDATE + 5);
```

Scenario 1:

Code:

```
BEGIN
    FOR rec IN (SELECT l.LoanID, l.InterestRate, c.Age FROM Loans l JOIN
Customers c ON l.CustomerID = c.CustomerID) LOOP
        IF rec.Age > 60 THEN
            UPDATE Loans
            SET InterestRate = InterestRate - 1
            WHERE LoanID = rec.LoanID;
        END IF;
    END LOOP;

    DBMS_OUTPUT.PUT_LINE('Discount applied to senior citizens.');
```

END;

Output:

```
statement processed.
Discount applied to senior citizens.
```

Scenario 2:

Code:

BEGIN

FOR rec IN (SELECT CustomerID, Balance FROM Customers) LOOP

IF rec.Balance > 10000 THEN

UPDATE Customers

SET IsVIP = 'Y'

WHERE CustomerID = rec.CustomerID;

END IF;

END LOOP;

DBMS_OUTPUT.PUT_LINE('VIP status updated.');

END;

Output:

```
statement processed.  
VIP status updated.
```

Scenario 3:

Code:

```
SET SERVEROUTPUT ON;
```

```
BEGIN
```

```
  FOR rec IN (
```

```
    SELECT c.Name, l.DueDate
```

```
    FROM Loans l JOIN Customers c ON l.CustomerID = c.CustomerID
```

```
    WHERE l.DueDate <= SYSDATE + 30
```

```
  ) LOOP
```

```
    DBMS_OUTPUT.PUT_LINE('Reminder: Loan for ' || rec.Name || ' due on ' ||  
TO_CHAR(rec.DueDate, 'DD-MON-YYYY'));
```

```
  END LOOP;
```

```
END;
```

Output:

```
Statement processed.
```

```
Reminder: Loan for Manan due on 07-JUL-2025
```