**PL/SQL PROGRAMMING**

# **Exercise 1: Control Structures**

## **Scenario\_1\_PL/SQL\_Code**:



| DECLARE  v\_customer\_age NUMBER; BEGIN  FOR cust IN (SELECT c.CustomerID, c.DOB, l.LoanID, l.InterestRate  FROM Customers c  JOIN Loans l ON c.CustomerID = l.CustomerID)  LOOP  v\_customer\_age := TRUNC(MONTHS\_BETWEEN(SYSDATE, cust.DOB) / 12);    IF v\_customer\_age > 60 THEN  UPDATE Loans  SET InterestRate = InterestRate - 1  WHERE LoanID = cust.LoanID;  END IF;  END LOOP;  COMMIT; END; / |
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## **Scenario\_2\_PL/SQL\_Code**:



| BEGIN  FOR cust IN (SELECT CustomerID, Balance FROM Customers)  LOOP  IF cust.Balance > 10000 THEN  UPDATE Customers  SET IsVIP = 'Y'  WHERE CustomerID = cust.CustomerID;  END IF;  END LOOP;  COMMIT; END; / |
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## **Scenario\_3\_PL/SQL\_Code**:

| DECLARE  v\_due\_date DATE := SYSDATE + 30; BEGIN  FOR loan\_rec IN (  SELECT c.Name, l.LoanID, l.EndDate  FROM Loans l  JOIN Customers c ON l.CustomerID = c.CustomerID  WHERE l.EndDate BETWEEN SYSDATE AND v\_due\_date  )  LOOP  DBMS\_OUTPUT.PUT\_LINE(  'Reminder for ' || loan\_rec.Name ||  ': Loan #' || loan\_rec.LoanID ||  ' is due on ' || TO\_CHAR(loan\_rec.EndDate, 'YYYY-MM-DD')  );  END LOOP; END; / |
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