// Table creation before PL SQL Block

CREATE TABLE Customers (

customer\_id NUMBER PRIMARY KEY,

name VARCHAR2(100),

age NUMBER,

balance NUMBER(7,2),

IsVIP VARCHAR2(5)

);

CREATE TABLE Loans (

loan\_id NUMBER PRIMARY KEY,

customer\_id NUMBER FOREIGN KEY REFERENCES Customers(customer\_id),

interest\_rate NUMBER,

due\_date DATE DEFAULT SYSDATE

);

**Question : Write a PL/SQL block that loops through all customers, checks their age, and if they are above 60, apply a 1% discount to their current loan interest rates.**

**Solution :**

BEGIN

FOR customer IN (SELECT customer\_id FROM Customers WHERE age > 60)

LOOP

UPDATE Loans

SET interest\_rate = interest\_rate - 1

WHERE customer\_id = customer.customer\_id;

END LOOP;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Interest discount applied for customers above 60');

END;

**Question : Write a PL/SQL block that iterates through all customers and sets a flag IsVIP to TRUE for those with a balance over $10,000.**

**Solution :**

BEGIN

FOR customer IN (SELECT customer\_id FROM Customers WHERE balance > 10000) LOOP

UPDATE Customers

SET IsVIP = 'TRUE'

WHERE customer\_id = customer.customer\_id;

END LOOP;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('VIP status updated for customers with balance over $10,000.');

END;

**Question : Write a PL/SQL block that fetches all loans due in the next 30 days and prints a reminder message for each customer.**

**Solution :**

BEGIN

FOR loan\_rec IN (

SELECT L.loan\_id, C.name, L.due\_date

FROM Loans L

JOIN Customers C ON L.customer\_id = C.customer\_id

WHERE L.due\_date BETWEEN SYSDATE AND SYSDATE + 30

)

LOOP

DBMS\_OUTPUT.PUT\_LINE('Reminder : Dear ' || loan\_rec.name ||

', your loan (CUSTOMER ID : ' || loan\_rec.loan\_id ||

') is due on ' || TO\_CHAR(loan\_rec.due\_date, 'DD-MON-YYYY') || '.');

END LOOP;

END;