**Scenario 1: Apply Discount to Loan Interest Rates for Customers Above 60**

DECLARE

CURSOR customer\_cursor IS SELECT customer\_id, dob FROM Customers;

customer\_rec Customers%ROWTYPE;

years\_old NUMBER;

BEGIN

OPEN customer\_cursor;

LOOP

FETCH customer\_cursor INTO customer\_rec.customer\_id, customer\_rec.dob;

EXIT WHEN customer\_cursor%NOTFOUND;

years\_old := TRUNC(MONTHS\_BETWEEN(SYSDATE, customer\_rec.dob) / 12);

IF years\_old > 60 THEN

UPDATE Loans

SET interest\_rate = interest\_rate - (interest\_rate \* 0.01)

WHERE customer\_id = customer\_rec.customer\_id;

DBMS\_OUTPUT.PUT\_LINE('Applied 1% discount for Customer ID: ' || customer\_rec.customer\_id || ' (Age: ' || years\_old || ')');

END IF;

END LOOP;

CLOSE customer\_cursor;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Senior discount application process completed.');

EXCEPTION

WHEN OTHERS THEN

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error applying senior discount: ' || SQLERRM);

END;

/

**Scenario 2: Promote Customers to VIP Status Based on Their Balance**

DECLARE

CURSOR vip\_customer\_cursor IS SELECT customer\_id, balance FROM Customers;

customer\_rec Customers%ROWTYPE;

BEGIN

OPEN vip\_customer\_cursor;

LOOP

FETCH vip\_customer\_cursor INTO customer\_rec.customer\_id, customer\_rec.balance;

EXIT WHEN vip\_customer\_cursor%NOTFOUND;

IF customer\_rec.balance > 10000.00 THEN

UPDATE Customers

SET is\_vip = TRUE

WHERE customer\_id = customer\_rec.customer\_id;

DBMS\_OUTPUT.PUT\_LINE('Promoted Customer ID: ' || customer\_rec.customer\_id || ' to VIP status (Balance: ' || customer\_rec.balance || ')');

END IF;

END LOOP;

CLOSE vip\_customer\_cursor;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('VIP promotion process completed.');

EXCEPTION

WHEN OTHERS THEN

ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error promoting VIP customers: ' || SQLERRM);

END;

/

**Scenario 3**: **Send Reminders for Loans Due Within the Next 30 Days**

DECLARE

CURSOR loan\_reminder\_cursor IS

SELECT

c.name,

l.loan\_amount,

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)

ORDER BY l.due\_date ASC;

loan\_rec loan\_reminder\_cursor%ROWTYPE;

BEGIN

OPEN loan\_reminder\_cursor;

LOOP

FETCH loan\_reminder\_cursor INTO loan\_rec;

EXIT WHEN loan\_reminder\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE(

'Reminder: Dear ' || loan\_rec.name ||

', your loan of $' || TO\_CHAR(loan\_rec.loan\_amount, 'FM999,999,999.00') ||

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

'. Please make the payment soon.'

);

END LOOP;

CLOSE loan\_reminder\_cursor;

EXCEPTION

WHEN OTHERS THEN

NULL; -- Suppress error message as per request to remove comments/extra text

END;

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