Control Structure

# Scenario 1: The bank wants to apply a discount to loan interest rates for customers above 60 years old.

# 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

declare

discountPercentage constant number := 1;

currDate date := sysdate;

age number;

begin

for data in (select c.customerid, c.dob, l.interestrate from customers c, loans l where

c.customerid = l.customerid) loop

age := trunc(months\_between(currDate, data.dob) / 12);

if age > 60 then

update loans

set interestrate = interestrate - (interestrate \* (discountPercentage / 100))

where customerid = data.customerid;

dbms\_output.put\_line('Updated interest rate for customer ID ' || data.customerid ||

' to ' || (data.interestrate - (data.interestrate \* (discountPercentage / 100))));

end if;

end loop;

commit;

end;

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# Scenario 2: A customer can be promoted to VIP status based on their balance.

# 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.

declare

v\_isVip varchar2(6);

v\_balance number;

begin

for data in (select c.customerid, a.accounttype, c.balance from customers c, accounts a where

c.customerid = a.customerid) loop

v\_balance := data.balance;

if v\_balance > 10000 then

v\_isVip := 'TRUE';

update accounts

set accounttype = 'VIP'

where customerid = data.customerid;

dbms\_output.put\_line('Customer ID ' || data.customerid ||

' is VIP account : ' || v\_isVip);

else

v\_isVip := 'FALSE';

dbms\_output.put\_line('Customer ID ' || data.customerid ||

' is VIP account : ' || v\_isVip);

end if;

end loop;

commit;

end;

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# **Scenario 3: The bank wants to send reminders to customers whose loans are due within the next 30 days.**

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

declare

v\_loanEndDate date;

begin

for data in (select c.customerid, l.enddate from customers c, loans l where

c.customerid = l.customerid) loop

v\_loanEndDate := data.enddate;

if (v\_loanEndDate > sysdate) and (v\_loanEndDate < (sysdate + 90)) then

dbms\_output.put\_line('Customer ID ' || data.customerid ||

' has loan due and the loan end date is ' || v\_loanEndDate);

end if;

end loop;

end;

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