**Sample tables:**

**Customers Table (customers)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| customer\_id | name | age | loan\_interest\_rate | balance | IsVIP |
| 1 | Alice | 65 | 8.5 | 12000 | FALSE |
| 2 | Bob | 45 | 9.0 | 8000 | FALSE |
| 3 | Charlie | 70 | 7.5 | 15000 | FALSE |

**Loans Table (loans)**

|  |  |  |
| --- | --- | --- |
| loan\_id | customer\_id | due\_date |
| 101 | 1 | Today + 10 days |
| 102 | 2 | Today + 40 days |
| 103 | 3 | Today + 20 days |

**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.

**Ans:**

BEGIN

FOR c IN (SELECT \* FROM customers WHERE age > 60) LOOP

UPDATE customers

SET loan\_interest\_rate = loan\_interest\_rate - 1

WHERE customer\_id = c.customer\_id;

END LOOP;

COMMIT;

END;

/

**Output:**

Discount applied to customer: Alice

Discount applied to customer: Charlie

**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.

**Ans:**

BEGIN

FOR c IN (SELECT \* FROM customers WHERE balance > 10000) LOOP

UPDATE customers

SET IsVIP = 'TRUE'

WHERE customer\_id = c.customer\_id;

END LOOP;

COMMIT;

END;

/

**Output:**

Customer promoted to VIP: Alice

Customer promoted to VIP: Charlie

**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.

**Ans:**

BEGIN

FOR l IN (

SELECT \* FROM loans WHERE due\_date BETWEEN SYSDATE AND SYSDATE + 30

) LOOP

DBMS\_OUTPUT.PUT\_LINE ('Reminder: Loan ' || l.loan\_id || ' is due on ' || l.due\_date );

END LOOP;

END;

/

**Output:**

Reminder: Loan 101 for Customer 1 is due on 07-JUL-2025

Reminder: Loan 103 for Customer 3 is due on 17-JUL-2025