**Exercise 1: Control Structures**

DECLARE

CURSOR cur\_loans IS

SELECT c.CustomerID, l.LoanID, l.InterestRate

FROM Customers c

JOIN Loans l ON c.CustomerID = l.CustomerID

WHERE MONTHS\_BETWEEN(SYSDATE, c.DOB) / 12 > 60;

BEGIN

FOR rec IN cur\_loans LOOP

UPDATE Loans

SET InterestRate = InterestRate - 1

WHERE LoanID = rec.LoanID;

END LOOP;

COMMIT;

END;

**Customers Table :**

| **CustomerID** | **Name** | **DOB** | **Balance** |  | **LastModified** |
| --- | --- | --- | --- | --- | --- |
| 101 | John Smith | 1950-01-01 | 15000 |  | 2024-12-01 |
| 102 | Alice Ray | 1980-05-20 | 9000 |  | 2025-02-11 |
| 103 | Peter Joe | 1958-08-14 | 11000 |  | 2024-11-30 |
| 104 | Sara Lee | 1992-12-10 | 7000 |  | 2025-03-10 |
| 105 | Tina Paul | 1955-03-25 | 12000 |  | 2024-10-22 |
|  |  |  |  |  |  |

**Loans Table**

| **LoanID** | **CustomerID** | **LoanAmount** | **InterestRate** | **StartDate** | **EndDate** |
| --- | --- | --- | --- | --- | --- |
| 501 | 101 | 50000 | 10.5 | 2023-01-01 | 2026-01-01 |
| 502 | 102 | 30000 | 11.0 | 2024-06-01 | 2027-06-01 |
| 503 | 103 | 45000 | 12.0 | 2023-03-01 | 2026-03-01 |
| 504 | 104 | 20000 | 9.5 | 2022-08-01 | 2025-08-01 |
| 505 | 105 | 60000 | 13.0 | 2022-09-15 | 2027-09-15 |

**Output**

**Loans Table After Updation**

| **LoanID** | **CustomerID** | **LoanAmount** | **InterestRate** | **StartDate** | **EndDate** |
| --- | --- | --- | --- | --- | --- |
| 501 | 101 | 50000 | 9.5 | 2023-01-01 | 2026-01-01 |
| 502 | 102 | 30000 | 11.0 | 2024-06-01 | 2027-06-01 |
| 503 | 103 | 45000 | 11.0 | 2023-03-01 | 2026-03-01 |
| 504 | 104 | 20000 | 9.5 | 2022-08-01 | 2025-08-01 |
| 505 | 105 | 60000 | 12.0 | 2022-09-15 | 2027-09-15 |