# PL/SQL MANDATORY HANDS-ON

## Exercise 1: Control Structures

1. Create Customers table

```
CREATE TABLE Customers (
    CustomerID      NUMBER PRIMARY KEY,
    Name            VARCHAR2(100),
    Age             NUMBER,
    Balance         NUMBER(10, 2),
    LoanInterestRate NUMBER(5, 2),
    IsVIP           VARCHAR2(5) DEFAULT 'FALSE'
);
```

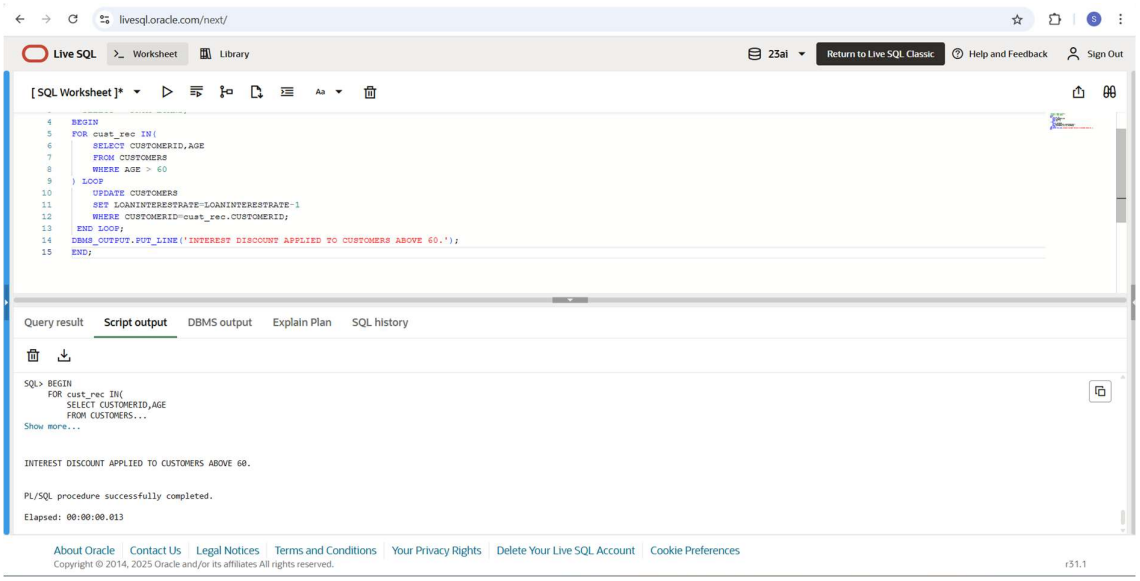
2.
```
CREATE TABLE Loans (
    LoanID     NUMBER PRIMARY KEY,
    CustomerID NUMBER,
    DueDate    DATE,
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

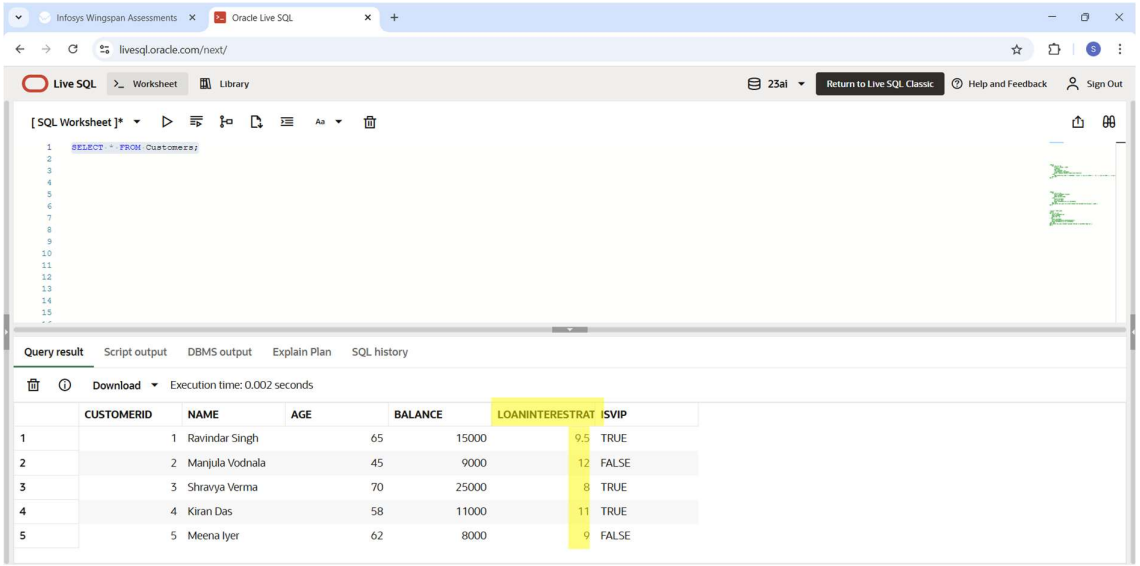
3.
```
INSERT INTO Customers VALUES (1, 'Ravindar Singh', 65, 15000.00, 10.5, 'FALSE');
INSERT INTO Customers VALUES (2, 'Manjula Vodnala', 45, 9000.00, 12.0, 'FALSE');
INSERT INTO Customers VALUES (3, 'Shravya Verma', 70, 25000.00, 9.0, 'FALSE');
INSERT INTO Customers VALUES (4, 'Kiran Das', 58, 11000.00, 11.0, 'FALSE');
INSERT INTO Customers VALUES (5, 'Meena Iyer', 62, 8000.00, 10.0, 'FALSE');
COMMIT;
```

4.
```
INSERT INTO Loans VALUES (101, 1, SYSDATE + 10);
INSERT INTO Loans VALUES (102, 2, SYSDATE + 40);
INSERT INTO Loans VALUES (103, 3, SYSDATE + 5);
INSERT INTO Loans VALUES (104, 4, SYSDATE - 1);
INSERT INTO Loans VALUES (105, 5, SYSDATE + 25);
COMMIT;
```

## SCENARIO-1:

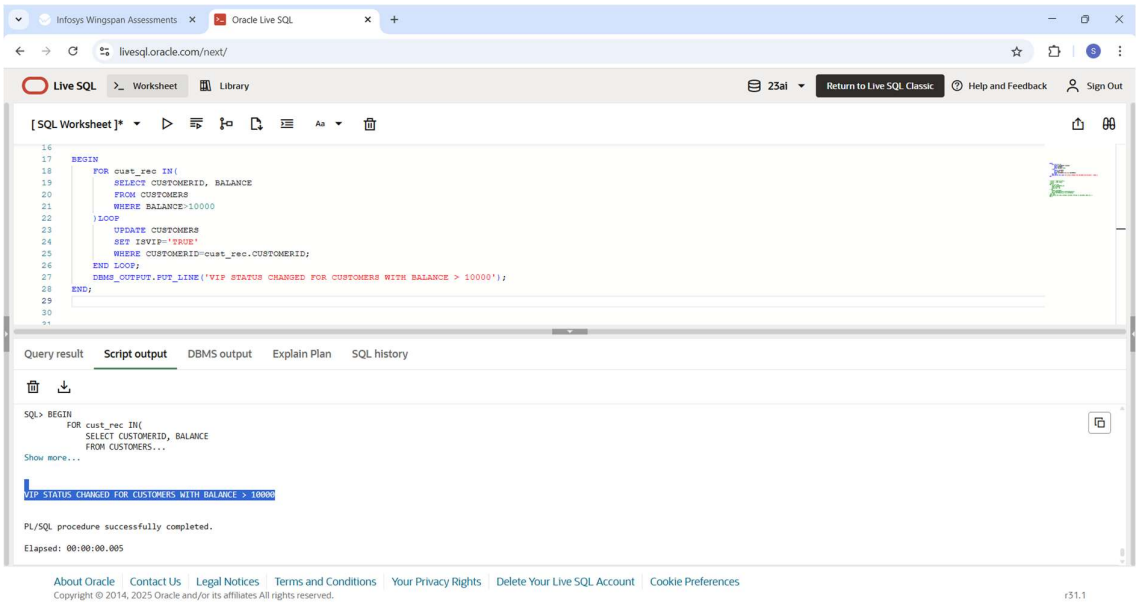
The bank wants to apply a discount to loan interest rates for customers above 60 years old.

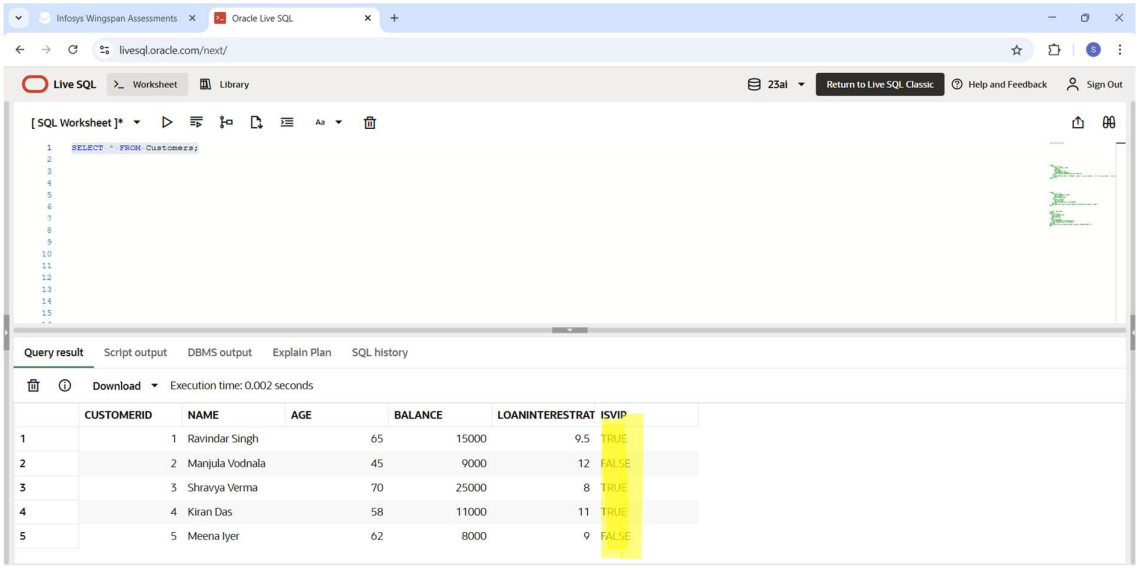


## SCENARIO-2:

A customer can be promoted to VIP status based on their balance.




| | CUSTOMERID | NAME | AGE | BALANCE | LOANINTERESTRAT | ISVIP |
|---|---|---|---|---|---|---|
| 1 | 1 | Ravindar Singh | 65 | 15000 | 9.5 | TRUE |
| 2 | 2 | Manjula Vodnala | 45 | 9000 | 12 | FALSE |
| 3 | 3 | Shravya Verma | 70 | 25000 | 8 | TRUE |
| 4 | 4 | Kiran Das | 58 | 11000 | 11 | TRUE |
| 5 | 5 | Meena Iyer | 62 | 8000 | 9 | FALSE |

## SCENARIO-3:

The bank wants to send reminders to customers whose loans are due within the next 30 days.