**Week - 2**

**PL/SQL programming**

**Exercise 1: Control Structures**

**Project Name** : ControlStructures

**Exercise**  : Implementing PL/SQL Using Control Structures

**Name**  : Alladi Manasa

**Superset Id** : 6373907

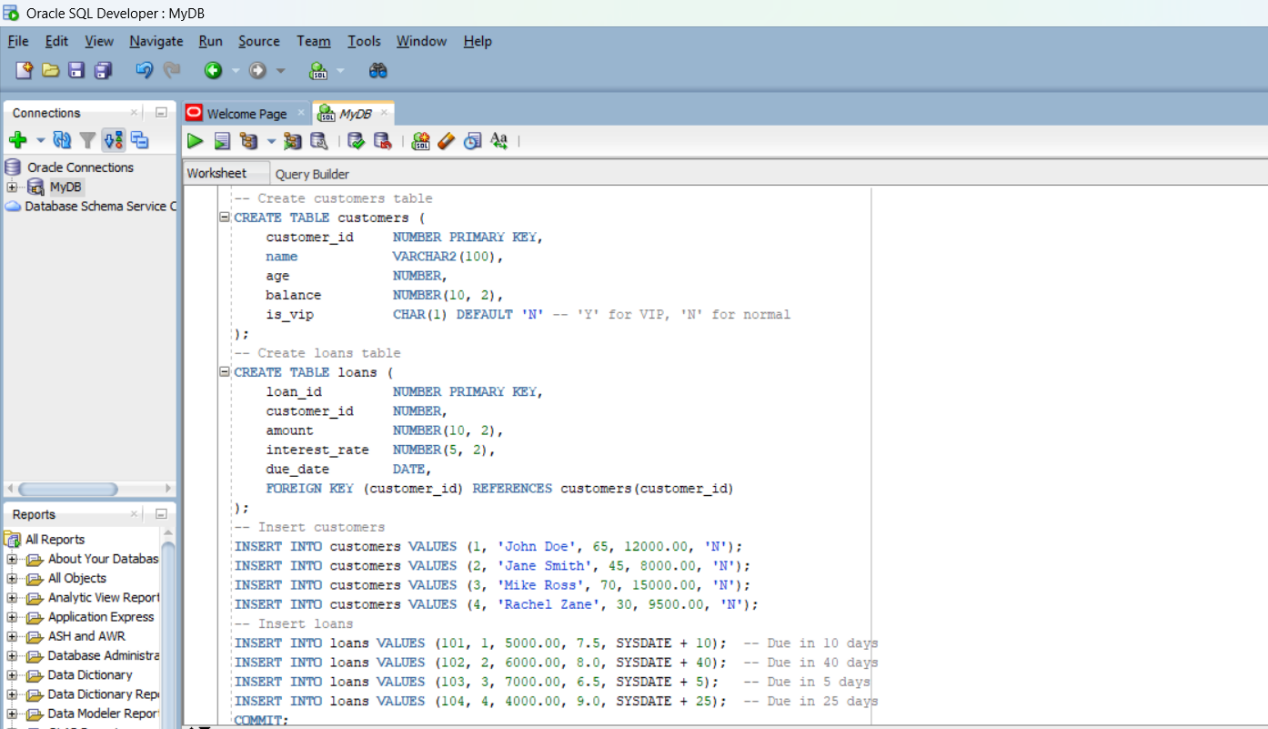
* **Introduction :**

This document presents PL/SQL solutions using control structures for a banking database. The goal is to manipulate customer and loan records using conditional and iterative logic.

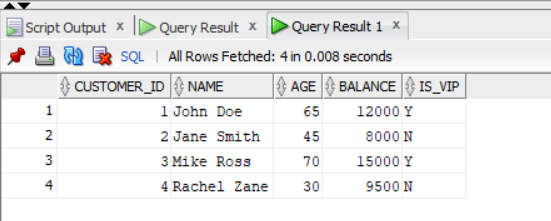
* **Implementation :**

**Step 1:** Establish New Connection

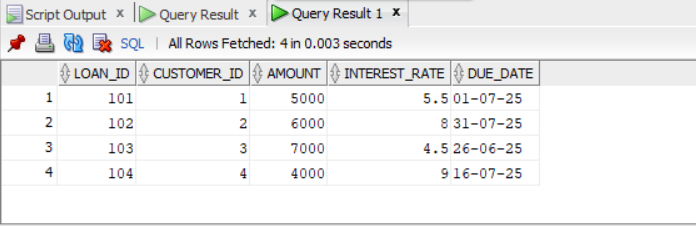
**Step 2:** Create Tables and Insert Values



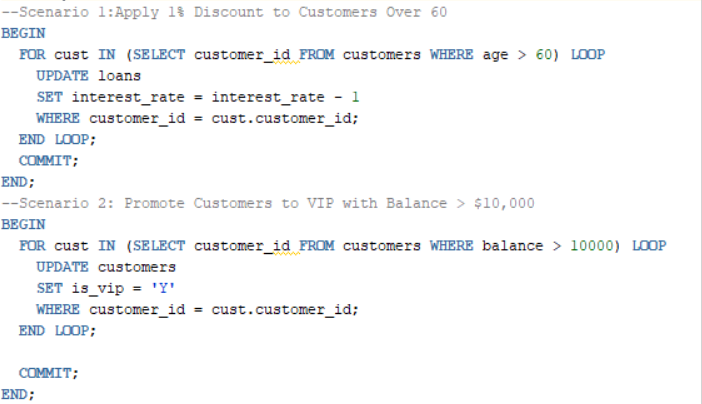
**Customers Table :**

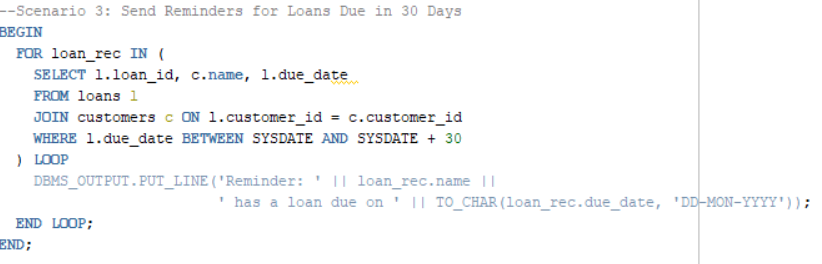


**Loans Table After Scenario 1:**

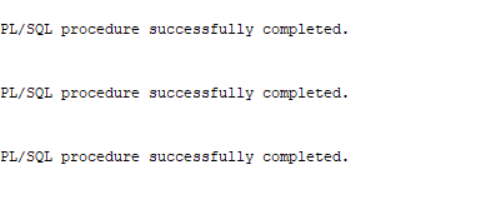


**Step 3:** Scenarios





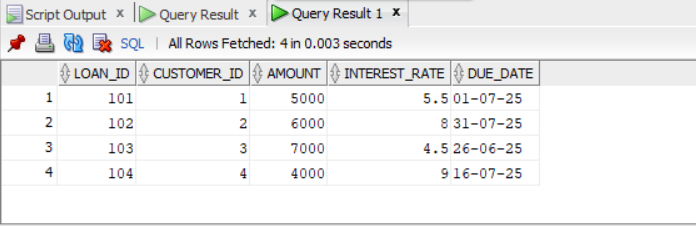
**Outputs :**



* **Outputs:**

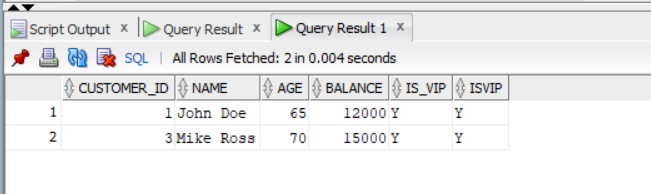
**Scenario 1:**

After Updating Intrest\_Rate:



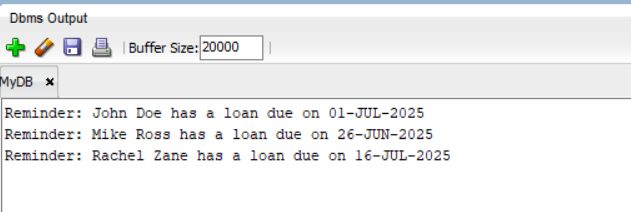
**Scenario 2:**

Customers is IS\_VIP and Balance > 10,000



**Dbms output for Scenario 3:**

Reminders For Loans Due in 30 Days



**Exercise 2 : Stored Procedures**

**Project Name** : Stored Procedures(Banking Example)

**Exercise**  : Implementing PL/SQL Using Stored Procedures

**Name**  : Alladi Manasa

**Superset Id** : 6373907

* **Introduction :**

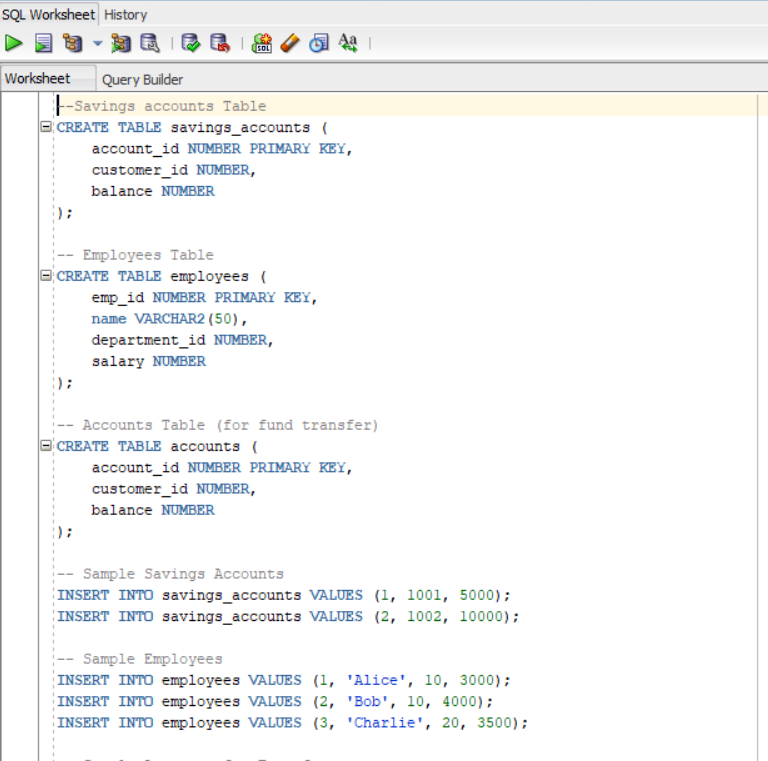
This exercise demonstrates the use of **PL/SQL stored procedures** to automate key banking operations. It includes:

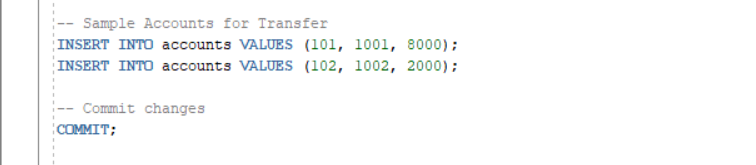
* Applying monthly interest to savings accounts
* Updating employee salaries with performance bonuses
* Transferring funds between customer accounts

These scenarios help develop skills in writing procedures, handling input parameters, and applying conditional logic in PL/SQL.

* **Implementation :**

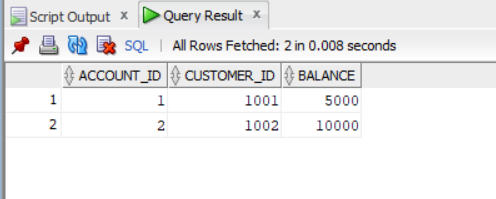
**Step 1:** Create Tables and Insert Values





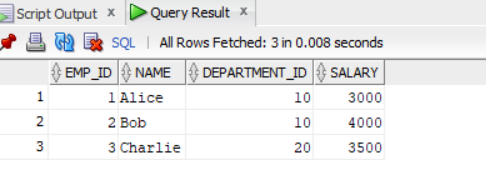
**Savings\_Accounts Table :**

SELECT \* FROM savings\_accounts;



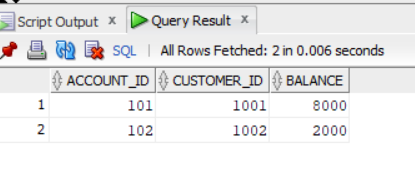
**Employees Table :**

SELECT \* FROM employees;

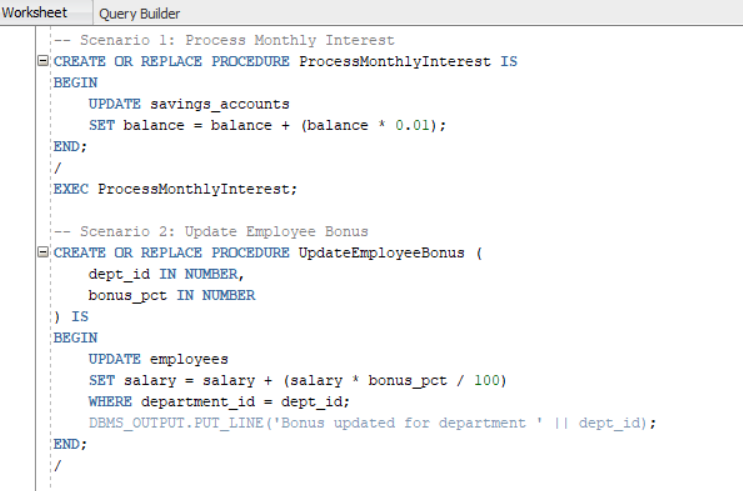


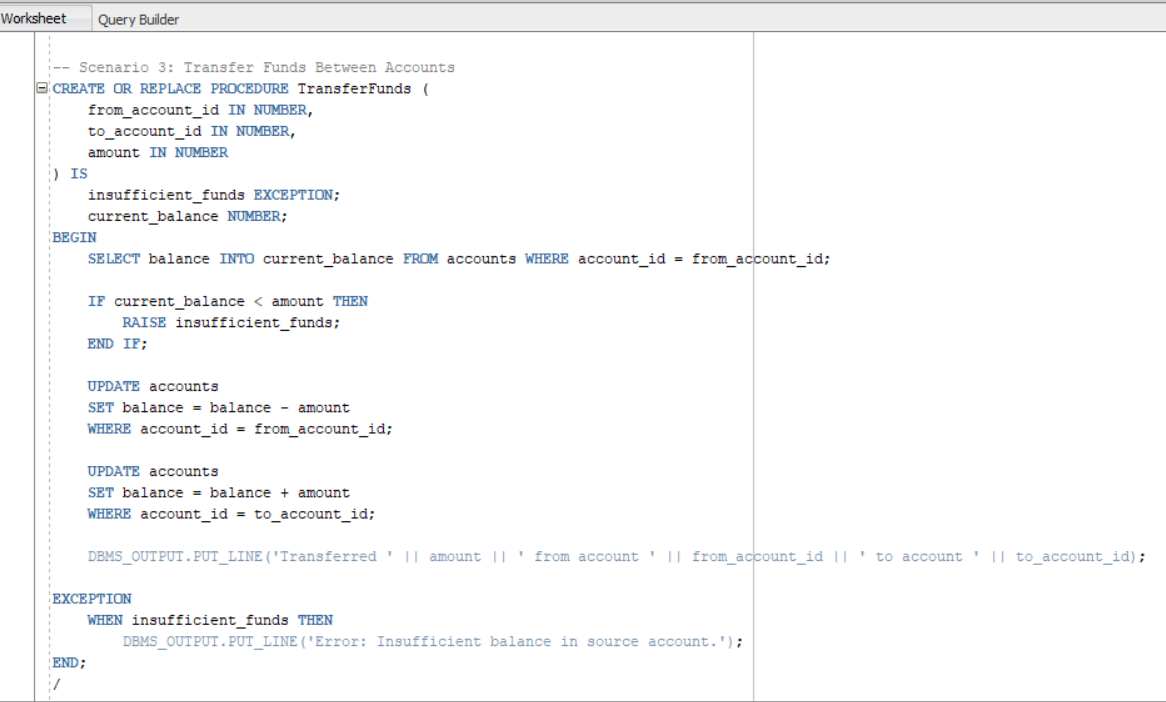
**Accounts Table :**

SELECT \* FROM accounts;



**Step 2 :** Scenarios





* **Procedure Execution :**

-- Execute Scenario 1

EXEC ProcessMonthlyInterest;

-- Execute Scenario 2

EXEC UpdateEmployeeBonus(10, 10); -- Dept ID 10, Bonus 10%

-- Execute Scenario 3

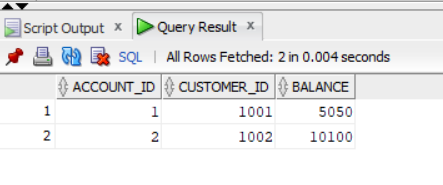
EXEC TransferFunds(101, 102, 1000); -- Transfer 1000 from acc 101 to acc 102

* **Outputs :**

**Scenario 1 :**

Balances in savings\_accounts will increase by 1%.

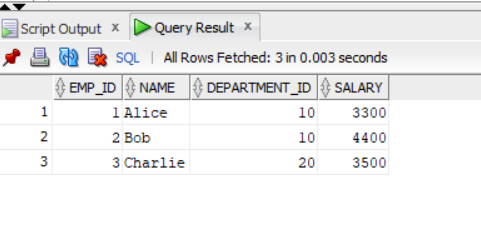
SELECT \* FROM savings\_accounts;



**Scenario 2 :**

Salaries updated in employees table for selected department.

SELECT \* FROM employees;



**Scenario 3 :**

Funds transferred between two accounts.

SELECT \* FROM accounts;

