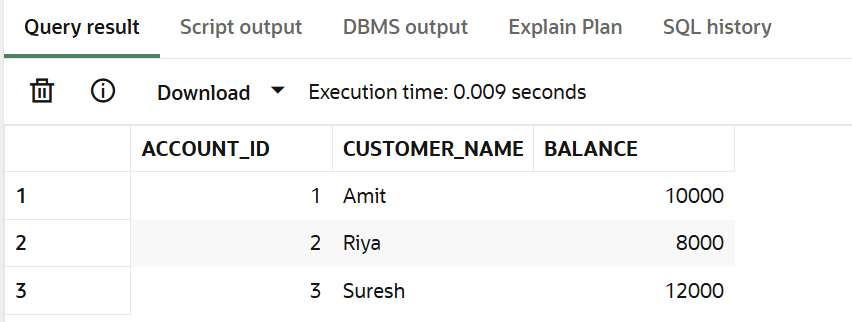
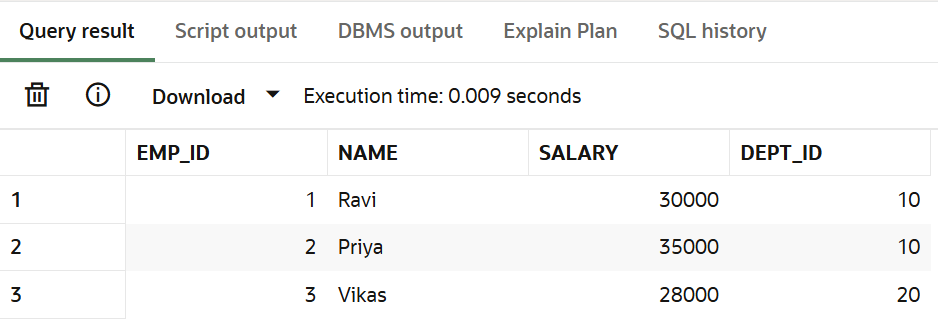
**PL/SQL Exercise-3 Stored Procedures : by Sahil Singh**

 Accounts Table :



Employees Table :



## Scenario 1: Monthly Interest for Savings Accounts

The bank needs to process monthly interest for all savings accounts.

Procedure Name: ProcessMonthlyInterest

Apply 1% interest to the current balance of all customers’ savings accounts.

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

  FOR acc IN (SELECT Account\_ID, Balance FROM Accounts) LOOP

    UPDATE Accounts

    SET Balance = Balance + (acc.Balance \* 0.01)

    WHERE Account\_ID = acc.Account\_ID;

  END LOOP;

END;

/

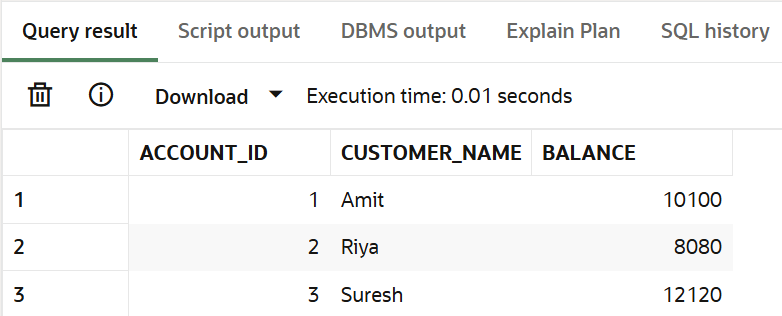
BEGIN

  ProcessMonthlyInterest;

END;

/

Output:





## Scenario 2: Performance Bonus for Employees

implement a bonus scheme for employees based on performance. Procedure Name: UpdateEmployeeBonus Add bonus percentage (passed as parameter) to employee salary in a particular department.

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus(

  dept\_id IN NUMBER,

  bonus\_percent IN NUMBER

) AS

BEGIN

  UPDATE Employees

  SET Salary = Salary + (Salary \* bonus\_percent / 100)

  WHERE Dept\_ID = dept\_id;

END;

/

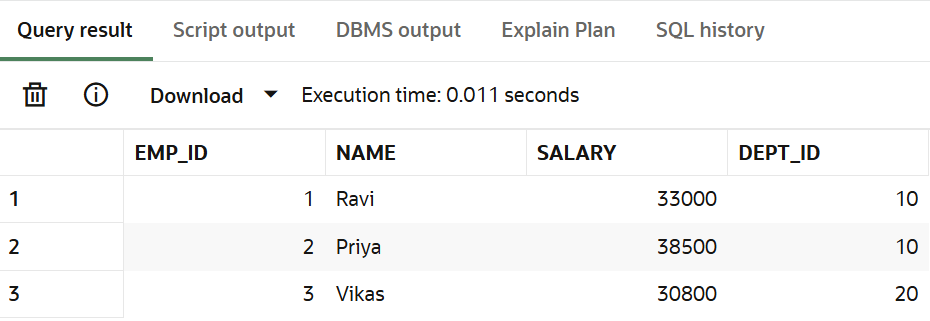
BEGIN

  UpdateEmployeeBonus(10, 10);

END;

/

Output:





## Scenario 3: Transfer Funds Between Accounts

Customers should be able to transfer funds between their accounts.

Procedure Name: TransferFunds Transfer a specified amount from one account to another only if source account has enough balance.

CREATE OR REPLACE PROCEDURE TransferFunds(

  from\_acc IN NUMBER,

  to\_acc IN NUMBER,

  amount IN NUMBER

) AS

  from\_balance NUMBER;

BEGIN

  SELECT Balance INTO from\_balance FROM Accounts WHERE Account\_ID = from\_acc;

  IF from\_balance < amount THEN

    DBMS\_OUTPUT.PUT\_LINE('Insufficient funds.');

  ELSE

    UPDATE Accounts SET Balance = Balance - amount WHERE Account\_ID = from\_acc;

    UPDATE Accounts SET Balance = Balance + amount WHERE Account\_ID = to\_acc;

    DBMS\_OUTPUT.PUT\_LINE('Transfer successful.');

  END IF;

END;

/

BEGIN

  TransferFunds(1, 2, 2000);

END;

/

Output:

