# **WEEK 2 PL SQL EXERCISES HANDS ON**

**SUBMITTED BY :-**

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COURSE – DIGITAL NURTURE 4.0 JAVA FSE

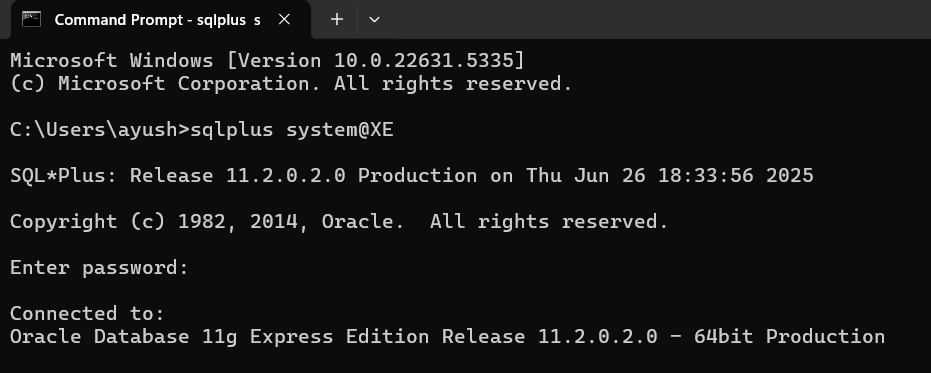
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COLLEGE – C.V. RAMAN GLOBAL UNIVERSITY

**PRE – REQUISITE:-**

**STEP 1: CONNECT TO SQL (Here I have done the whole week 2 PL SQL questions in cmd prompt)**

**STEP 2: Enter password**

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**Now for the required exercises:-**

**Exercise 1: Control Structures**

**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.**

**Scenario 2: A customer can be promoted to VIP status based on their balance.**

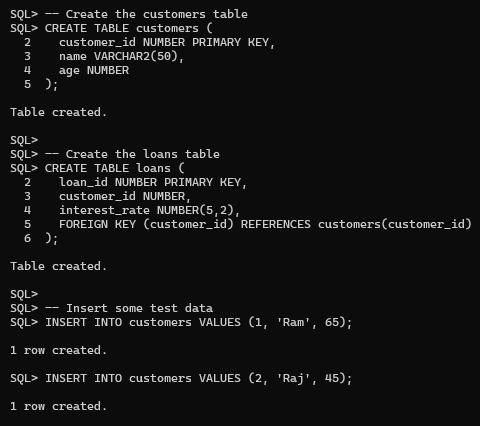
* + **Question: Write a PL/SQL block that iterates through all customers and sets a flag IsVIP to TRUE for those with a balance over $10,000.**

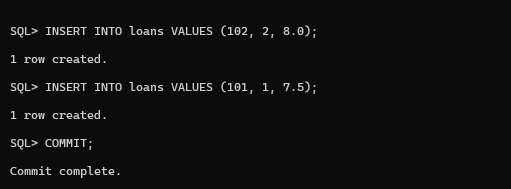
**Scenario 3: The bank wants to send reminders to customers whose loans are due within the next 30 days.**

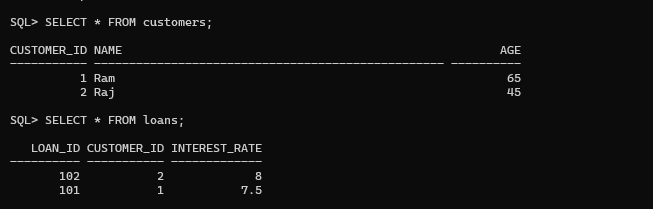
* + **Question: Write a PL/SQL block that fetches all loans due in the next 30 days and prints a reminder message for each customer.**

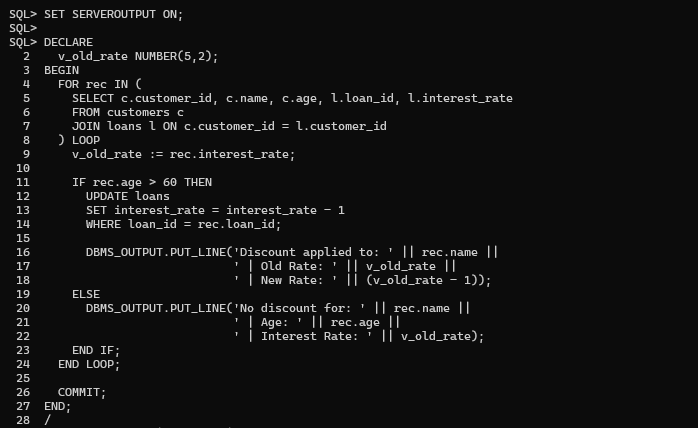
**QUERY:-**

**SCENARIO 1:-**

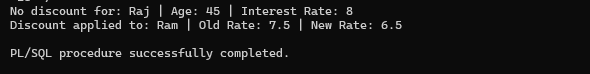
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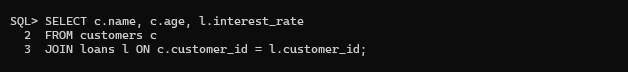
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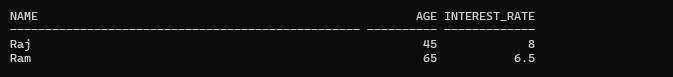
**OUTPUT:-**

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**QUERY (FOR DISCOUNTED APPLY):-**

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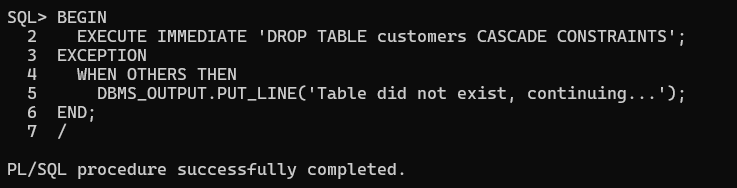
**OUTPUT:-**

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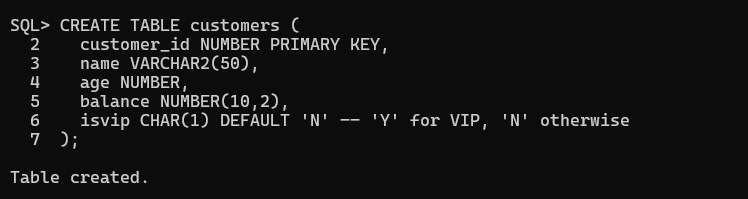
**For Scenario 2 we have to first DROP the TABLE customers and loans then we will execute another one like this :**

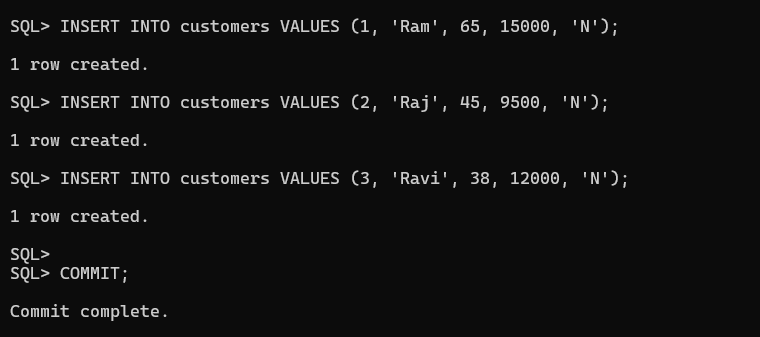
**SCENARIO 2:-**

**Drop the table:**

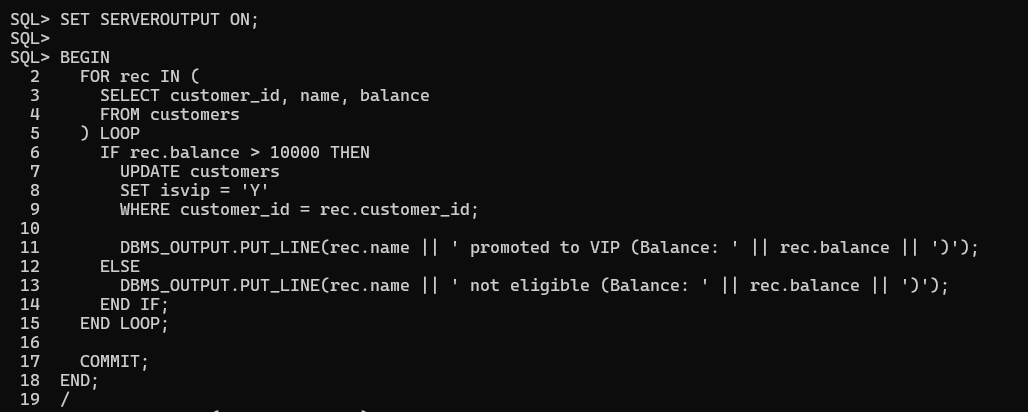
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**Create another one**

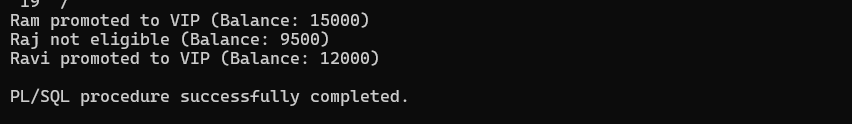
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**Main Query:-**

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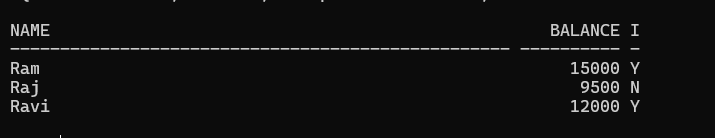
**Output:-**

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**Query to get table as output:-**

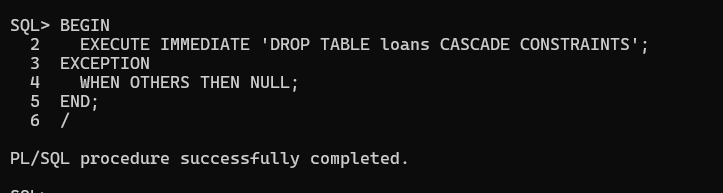
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**Output :-**

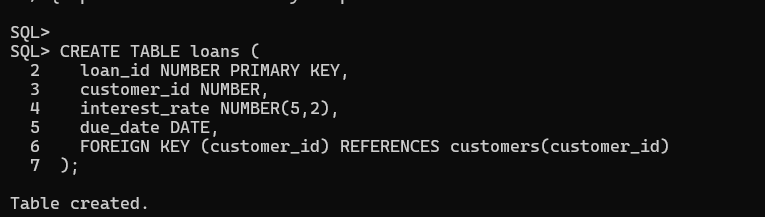
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**Now for scenario 3:-**

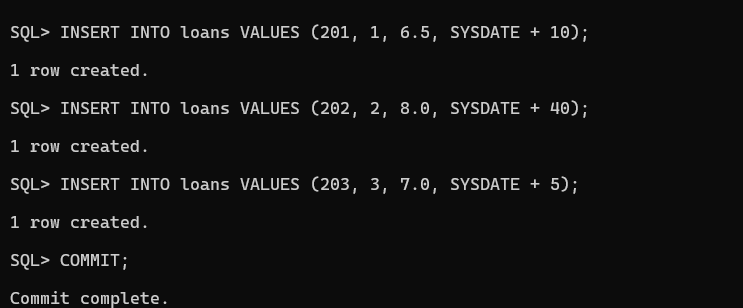
**Now again before doing anything drop the table and then create it with appropriate data :-**

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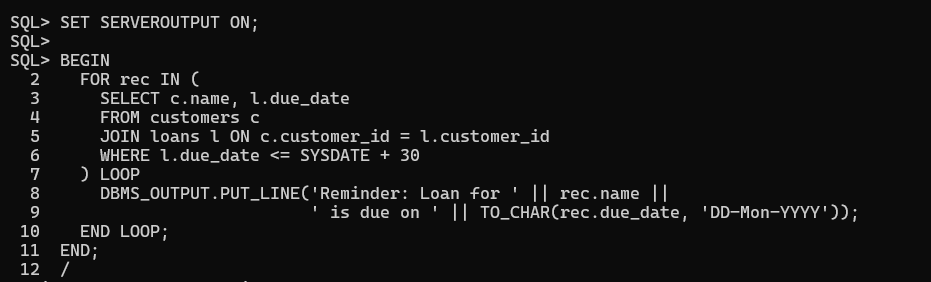
**Table Creation:-**

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**Insertion Data:-**

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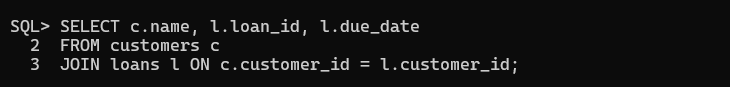
**Main Query:-**

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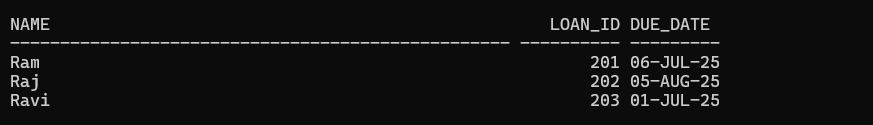
**Output:-**

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**Another Query for displaying the Table:-**

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**Output:-**

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**Exercise 3: Stored Procedures**

**Scenario 1: The bank needs to process monthly interest for all savings accounts.**

* + **Question: Write a stored procedure ProcessMonthlyInterest that calculates and updates the balance of all savings accounts by applying an interest rate of 1% to the current balance.**

**Scenario 2: The bank wants to implement a bonus scheme for employees based on their performance.**

* + **Question: Write a stored procedure UpdateEmployeeBonus that updates the salary of employees in a given department by adding a bonus percentage passed as a parameter.**

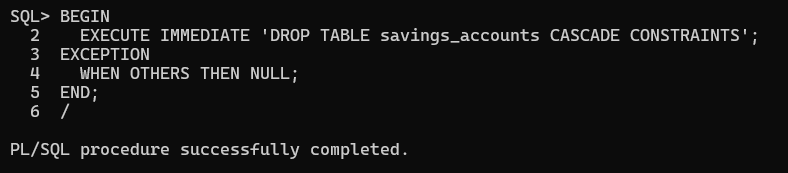
**Scenario 3: Customers should be able to transfer funds between their accounts.**

* + **Question: Write a stored procedure TransferFunds that transfers a specified amount from one account to another, checking that the source account has sufficient balance before making the transfer.**

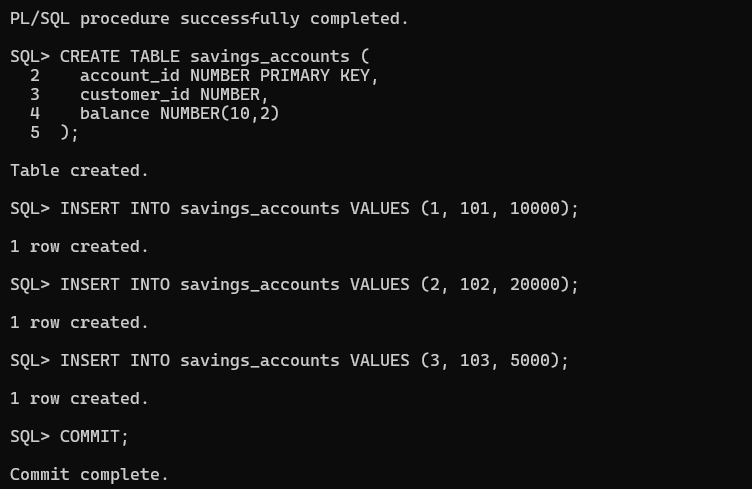
**SOLUTION:-**

**Scenario 1:**

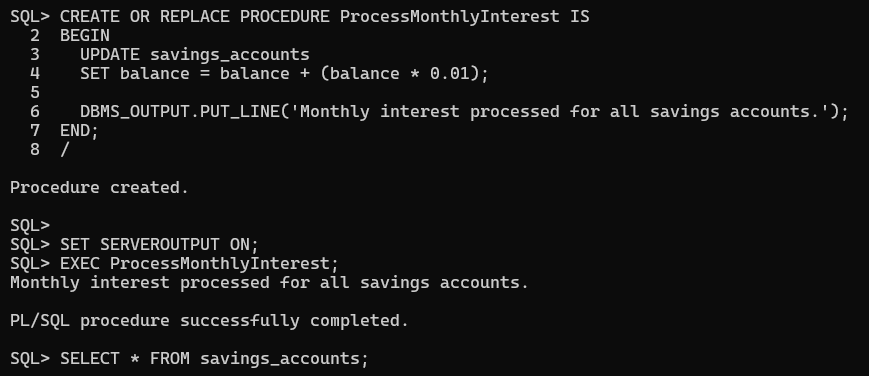
**Step 1: Delete all the tables (if existed)**

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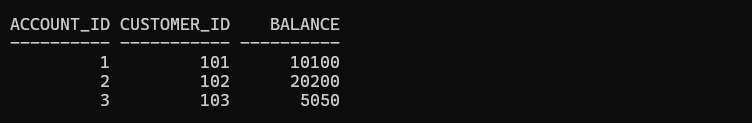
**Step 2: Create a Table and insert Data :**

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**Step 3: Main Query**

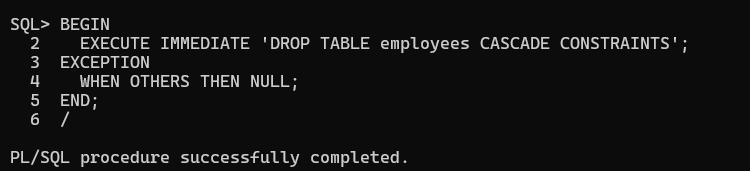
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**OUTPUT:**

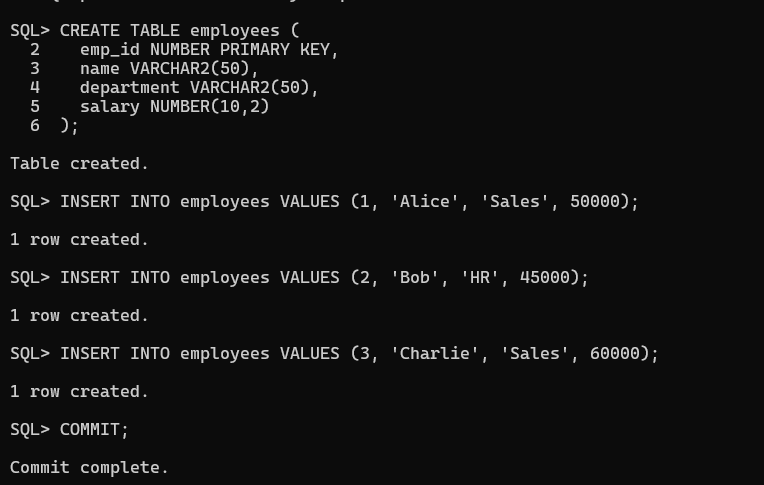
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**Scenario 2:**

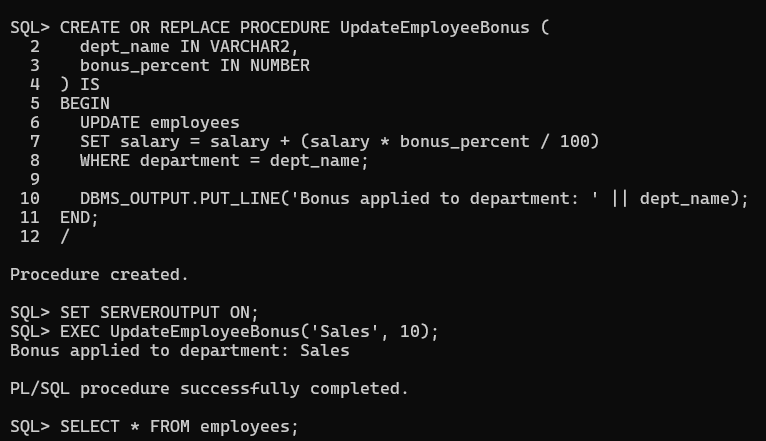
**Step 1: Delete all the tables (if existed):**

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**Step 2: Create a Table and insert Data :**

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**Step 3: Main Query:**

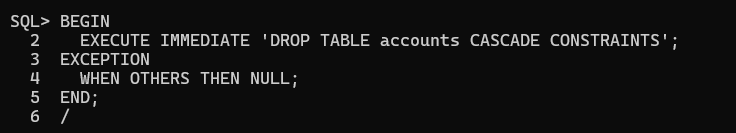
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**OUTPUT:**

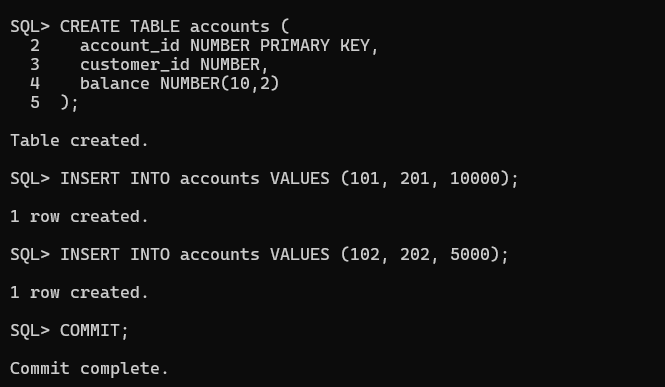
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**Scenario 3:**

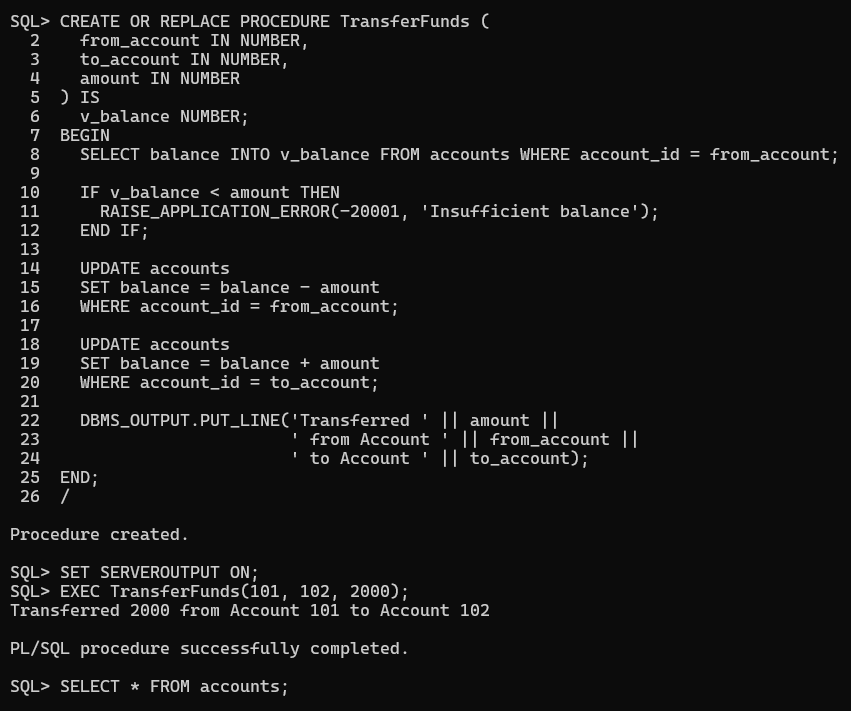
**Step 1: Delete all the tables (if existed)**

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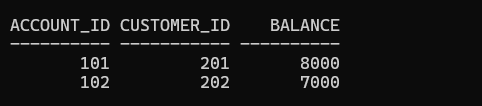
**Step 2: Create a Table and insert Data :**

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**Step 3: Main Query**

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**OUTPUT:**

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