**Exercise 3: Stored Procedures**

**Scenario 1:**

**Code:**

CREATE OR REPLACE PROCEDURE ProcessMonthlyInterest AS

BEGIN

  UPDATE accounts

  SET balance = balance + (balance \* 0.01)

  WHERE account\_type = 'savings';

  COMMIT;

END;

/

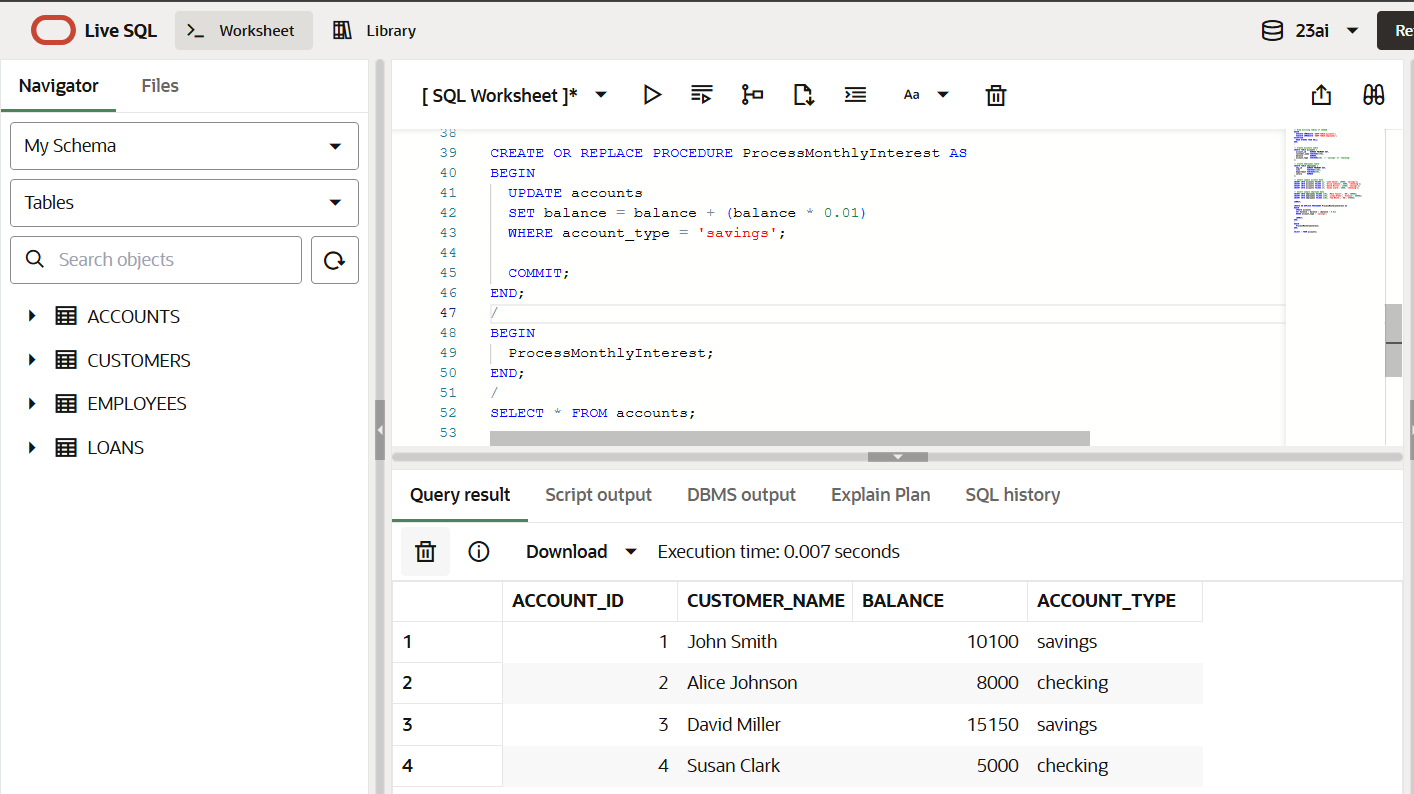
BEGIN

  ProcessMonthlyInterest;

END;

SELECT \* FROM accounts;

**OUTPUT:**

****

**Scenario 2:**

**Code:**

CREATE OR REPLACE PROCEDURE UpdateEmployeeBonus (

  dept\_name IN VARCHAR2,

  bonus\_percent IN NUMBER

) AS

BEGIN

  UPDATE employees

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

  WHERE department = dept\_name;

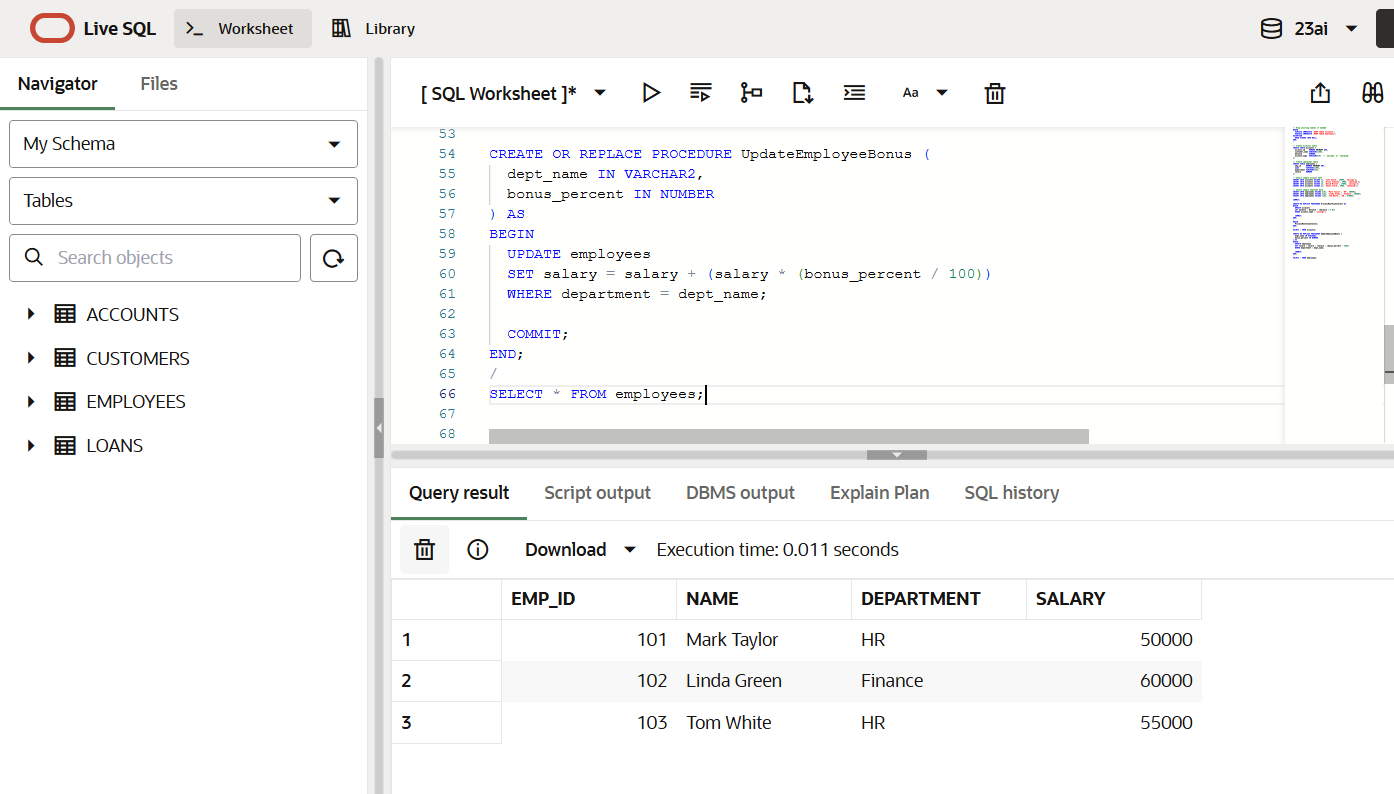
  COMMIT;

END;

/

SELECT \* FROM employees;

**OUTPUT:**

****

**Scenario 3:**

**Code:**

CREATE OR REPLACE PROCEDURE TransferFunds (

from\_account\_id IN NUMBER,

to\_account\_id IN NUMBER,

amount IN NUMBER

) AS

from\_balance NUMBER;

BEGIN

-- Check balance

SELECT balance INTO from\_balance

FROM accounts

WHERE account\_id = from\_account\_id;

IF from\_balance < amount THEN

RAISE\_APPLICATION\_ERROR(-20001, 'Insufficient balance in source account');

END IF;

-- Deduct from source

UPDATE accounts

SET balance = balance - amount

WHERE account\_id = from\_account\_id;

-- Add to target

UPDATE accounts

SET balance = balance + amount

WHERE account\_id = to\_account\_id;

COMMIT;

END;

BEGIN

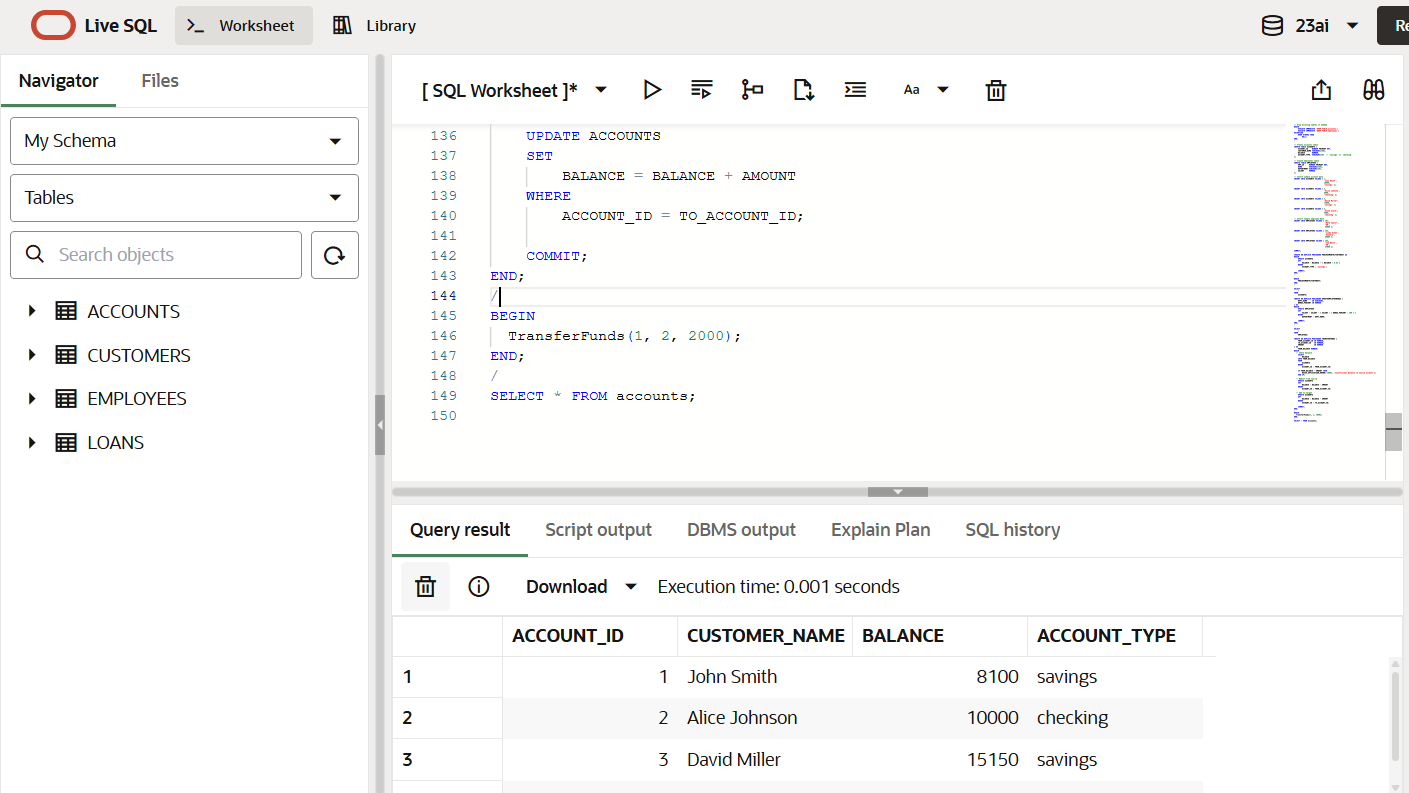
TransferFunds(1, 2, 2000); -- Transfer 2000 from account 1 to account 2

END;

/

SELECT \* FROM accounts;

**OUTPUT:**

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