CREATE TABLE accounts (

    account\_id   NUMBER PRIMARY KEY,

    customer\_id  NUMBER,

    balance      NUMBER(10, 2)

);

-- Sample data

INSERT INTO accounts VALUES (201, 1, 5000);

INSERT INTO accounts VALUES (202, 2, 3000);

COMMIT;

--process

CREATE OR REPLACE PROCEDURE TransferFunds (

    from\_account\_id IN NUMBER,

    to\_account\_id   IN NUMBER,

    amount          IN NUMBER

) IS

    insufficient\_balance EXCEPTION;

BEGIN

  -- Check balance

  DECLARE

    v\_balance NUMBER;

  BEGIN

    SELECT balance INTO v\_balance FROM accounts WHERE account\_id = from\_account\_id;

    IF v\_balance < amount THEN

      RAISE insufficient\_balance;

    END IF;

    -- Deduct from source

    UPDATE accounts

    SET balance = balance - amount

    WHERE account\_id = from\_account\_id;

    -- Add to destination

    UPDATE accounts

    SET balance = balance + amount

    WHERE account\_id = to\_account\_id;

    COMMIT;

  END;

EXCEPTION

  WHEN insufficient\_balance THEN

    DBMS\_OUTPUT.PUT\_LINE('Insufficient balance. Transfer failed.');

  WHEN NO\_DATA\_FOUND THEN

    DBMS\_OUTPUT.PUT\_LINE('Invalid account ID.');

  WHEN OTHERS THEN

    DBMS\_OUTPUT.PUT\_LINE('Unexpected error: ' || SQLERRM);

END;

/

--execute

EXEC TransferFunds(201, 202, 1000);  -- Transfer 1000 from account 201 to 202

-- For display

SELECT \* FROM accounts;