## **HANDSON 6: Stored Procedures**

-- Add to destination

```
-- Use the correct database
USE bankdetails:
-- Drop the procedure if it already exists
DROP PROCEDURE IF EXISTS ProcessMonthlyInterest;
-- Create ProcessMonthlyInterest procedure
DELIMITER //
CREATE PROCEDURE ProcessMonthlyInterest()
BEGIN
 UPDATE accounts
 SET balance = balance * 1.01
 WHERE account type = 'savings';
END //
DELIMITER;
-- Drop the procedure if it already exists
DROP PROCEDURE IF EXISTS UpdateEmployeeBonus;
-- Create UpdateEmployeeBonus procedure
DELIMITER //
CREATE PROCEDURE UpdateEmployeeBonus(
 IN dept name VARCHAR(50),
 IN bonus percent DECIMAL(5,2)
BEGIN
 UPDATE employees
 SET salary = salary + (salary * bonus percent / 100)
 WHERE department = dept_name;
END //
DELIMITER;
-- Drop the procedure if it already exists
DROP PROCEDURE IF EXISTS TransferFunds;
-- Create TransferFunds procedure
DELIMITER //
CREATE PROCEDURE TransferFunds(
 IN from id INT,
 IN to id INT,
 IN amount DECIMAL(10,2)
BEGIN
 DECLARE from_balance DECIMAL(10,2);
 -- Get balance of source account
 SELECT balance INTO from balance FROM accounts WHERE account id = from id;
 IF from balance >= amount THEN
  -- Deduct from source
  UPDATE accounts
  SET balance = balance - amount
  WHERE account id = from id;
```

```
UPDATE accounts
SET balance = balance + amount
WHERE account_id = to_id;
ELSE
SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Insufficient balance';
END IF;
END //
DELIMITER;
```

- -- Example calls (commented out)
- -- CALL ProcessMonthlyInterest();
- -- CALL UpdateEmployeeBonus('IT', 10);
- -- CALL TransferFunds(1, 3, 1000.00);