**SQL PROCEDURE:**

BEGIN

DECLARE v\_from\_balance DECIMAL(10,2);

DECLARE v\_sufficient\_funds BOOLEAN;

DECLARE v\_message VARCHAR(255); -- Declare a variable for the message

START TRANSACTION;

SELECT balance INTO v\_from\_balance

FROM accounts

WHERE accountid = p\_from\_account

FOR UPDATE;

SET v\_sufficient\_funds = (v\_from\_balance >= p\_amount);

IF v\_sufficient\_funds THEN

UPDATE accounts SET balance = balance - p\_amount

WHERE accountid = p\_from\_account;

UPDATE accounts SET balance = balance + p\_amount

WHERE accountid = p\_to\_account;

COMMIT;

SET v\_message = CONCAT('Transfer successful. $', p\_amount, ' moved from account ', p\_from\_account, ' to ', p\_to\_account);

ELSE

ROLLBACK;

SET v\_message = CONCAT('Transfer failed: Insufficient funds. Account ', p\_from\_account, ' has $', v\_from\_balance, ' (attempted to transfer $', p\_amount, ')');

END IF;

SELECT v\_message AS Message;

SELECT

accountid,

balance AS CurrentBalance,

(accountid = p\_from\_account) AS IsSenderAccount

FROM accounts

WHERE accountid IN (p\_from\_account, p\_to\_account);

END

**OUTPUT:**



