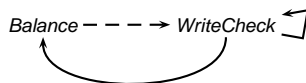# Balance(N) & WriteCheck(N,V)

SELECT custid INTO cid
FROM Account
WHERE name=n;

SELECT bal INTO a
FROM Saving
WHERE custid=cid;

SELECT bal INTO b
FROM Checking
WHERE custid=cid;
total:=a+b;

Balance — — — → *WriteCheck* ⤶

SELECT CustomerId INTO :x FROM Account
WHERE Name=:N;

SELECT Balance INTO :a FROM Saving
WHERE CustomerId=:x;

SELECT Balance INTO :b FROM Checking
WHERE CustomerId=:x;

IF (:a+:b) < :V THEN
    UPDATE Checking
    SET Balance = Balance-(:V+1)
    WHERE CustomerId=:x;
ELSE
    UPDATE Checking
    SET Balance = Balance-:V
    WHERE CustomerId=:x;
END IF;

TransactSaving(N,V) & WriteCheck(N,V)

SELECT CustomerId INTO :x
FROM Account
WHERE Name=:N;

SELECT Balance INTO :a
FROM Saving
WHERE CustomerId=:x;

UPDATE Saving
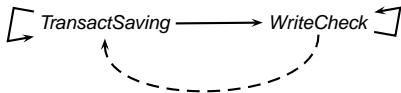SET Balance = Balance+:V
WHERE CustomerId=:x;

SELECT CustomerId INTO :x FROM Account
WHERE Name=:N;

SELECT Balance INTO :a FROM Saving
WHERE CustomerId=:x;

SELECT Balance INTO :b FROM Checking
WHERE CustomerId=:x;

IF (:a+:b) < :V THEN
    UPDATE Checking
    SET Balance = Balance-(:V+1)
    WHERE CustomerId=:x;
ELSE
    UPDATE Checking
    SET Balance = Balance-:V
    WHERE CustomerId=:x;
END IF;

TransactSaving ⟶ *WriteCheck*

SDG Graph