# Pedro Gregorio

# A9

CREATE TRIGGER A9

ON DETAILRENTAL

AFTER INSERT, UPDATE, DELETE

AS

--UPDATE

IF (EXISTS (SELECT \* FROM INSERTED) AND EXISTS (SELECT \* FROM deleted))

BEGIN

DECLARE UPDATE\_BALANCE CURSOR FOR

SELECT I.RENT\_NUM, I.DETAIL\_DUEDATE, I.DETAIL\_RETURNDATE, I.DETAIL\_DAILYLATEFEE,

D.DETAIL\_DUEDATE, D.DETAIL\_RETURNDATE, D.DETAIL\_DAILYLATEFEE

FROM INSERTED I INNER JOIN DELETED D ON I.RENT\_NUM = D.RENT\_NUM

DECLARE @RENT\_NUM INT

DECLARE @NEW\_DUEDATE DATETIME

DECLARE @OLD\_DUEDATE DATETIME

DECLARE @NEW\_RETURNDATE DATETIME

DECLARE @OLD\_RETURNDATE DATETIME

DECLARE @NEW\_LATEFEE DECIMAL (3,2)

DECLARE @OLD\_LATEFEE DECIMAL (3,2)

DECLARE @BEFORE\_LATEFEE DECIMAL (3,2)

DECLARE @AFTER\_LATEFEE DECIMAL (3,2)

DECLARE @DIF\_LATEFEE DECIMAL (3,2)

DECLARE @NEW\_BALANCE DECIMAL (3,2)

OPEN UPDATE\_BALANCE

FETCH NEXT

FROM UPDATE\_BALANCE

INTO @RENT\_NUM, @NEW\_DUEDATE, @NEW\_DUEDATE, @NEW\_LATEFEE,

@OLD\_DUEDATE, @OLD\_DUEDATE, @OLD\_LATEFEE

WHILE @@FETCH\_STATUS = 0

IF (@OLD\_RETURNDATE > @OLD\_DUEDATE)

BEGIN

SELECT @BEFORE\_LATEFEE = DATEDIFF(DAY, @OLD\_DUEDATE, @NEW\_RETURNDATE) \* @OLD\_LATEFEE

END

ELSE

SELECT @BEFORE\_LATEFEE = 0

IF (@NEW\_RETURNDATE > @NEW\_DUEDATE)

BEGIN

SELECT @AFTER\_LATEFEE = DATEDIFF(DAY, @NEW\_DUEDATE, @NEW\_RETURNDATE) \* @NEW\_LATEFEE

END

ELSE

SELECT @AFTER\_LATEFEE = 0

SELECT @DIF\_LATEFEE = @AFTER\_LATEFEE - @BEFORE\_LATEFEE

IF(@DIF\_LATEFEE <> 0)

BEGIN

DECLARE @MEM\_NUM INT

SELECT @MEM\_NUM = M.MEM\_NUM, @NEW\_BALANCE = M.MEM\_BALANCE

FROM RENTAL R INNER JOIN MEMBERSHIP M ON R.Mem\_Num = M.Mem\_Num

AND @RENT\_NUM = R.Rent\_Num

IF (@NEW\_BALANCE IS NULL)

UPDATE MEMBERSHIP

SET Mem\_Balance = @DIF\_LATEFEE

WHERE MEM\_NUM = @MEM\_NUM

ELSE

UPDATE MEMBERSHIP

SET MEM\_BALANCE = MEM\_BALANCE + @DIF\_LATEFEE

WHERE Mem\_Num = @MEM\_NUM

UPDATE MEMBERSHIP

SET Mem\_Balance = MEM\_BALANCE + @DIF\_LATEFEE

WHERE MEM\_NUM = @MEM\_NUM

FETCH NEXT FROM MEM\_BALANCE\_UPDATE\_CURSOR

INTO @RENT\_NUM, @NEW\_DUEDATE, @NEW\_RETURNDATE, @NEW\_LATEFEE,

@OLD\_DUEDATE, @OLD\_RETURNDATE, @OLD\_LATEFEE

END

END

CLOSE MEM\_BALANCE\_UPDATE\_CURSOR

DEALLOCATE MEM\_BALANCE\_UPDATE\_CURSOR