

Dillon Wallace

CIS 310 - 01

Guan

A9

04/03/17

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/** Dillon Wallace, Guan, CIS 310-01
    Trigger Update movie balance
**/

--DROP trigger Hw7.A9;
Create trigger HW7.A9 ON HW7.DETAILRENTAL AFTER UPDATE AS

BEGIN
DECLARE @NEW_DATE_DIFF INT, @PRV_DATE_DIFF INT, @PRV_FEE DECIMAL (5,2), @CUR_FEE DECIMAL
(5,2),
        @RENT_NUM INT, @CALC_PRV_FEE DECIMAL(5,2), @CALC_NEW_FEE DECIMAL(5,2),
@CALC_FEE DECIMAL(5,2);

        --Cursor Code --
DECLARE Process_Update CURSOR for
SELECT ISNULL(DATEDIFF(DAY, U.Detail_DueDate, U.Detail_ReturnDate),0),
ISNULL(DATEDIFF(DAY, P.Detail_DueDate, P.Detail_ReturnDate),0),
        P.Detail_DailyLateFee, U.Detail_DailyLateFee, U.Rent_Num
FROM DELETED P Inner Join INSERTED U ON (P.Vid_Num = U.Vid_Num and P.Rent_Num =
U.Rent_Num)

--Process Update --
OPEN Process_Update
FETCH Next FROM Process_Update into @NEW_DATE_DIFF, @PRV_DATE_DIFF, @CUR_FEE, @PRV_FEE,
@RENT_NUM
WHILE (@@FETCH_STATUS = 0)
    BEGIN
        SET @CALC_PRV_FEE = (@PRV_FEE * @PRV_DATE_DIFF);
        SET @CALC_NEW_FEE = (@CUR_FEE * @NEW_DATE_DIFF);
        SET @CALC_FEE = (@CALC_NEW_FEE - @CALC_PRV_FEE);
        --If change required --
        IF (@CALC_FEE <> 0)
            BEGIN
                UPDATE Membership SET Mem_Balance= (@CALC_FEE + Mem_Balance)
                WHERE Mem_Num = (SELECT Mem_Num from RENTAL where
RENTAL.Rent_Num = @RENT_NUM);
            END
        FETCH Next FROM Process_Update into @NEW_DATE_DIFF, @PRV_DATE_DIFF,
@CUR_FEE, @PRV_FEE, @RENT_NUM
    END
CLOSE Process_Update
DEALLOCATE Process_Update
END;

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GO

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/** Intergrity Testing
-- Test One update (Compared and works) (Return Date > Due Date, Added 2$'s to fee
(originally 5, now 7)
UPDATE HW7.DETAILRENTAL SET Detail_ReturnDate = DATEADD(DAY,2,DETAIL_DUEDATE)
    WHERE Rent_Num= 1006 and VID_Num=61367;

-- Test Two Update (changed updated date to due date, removed $2's, was 7, now baack to
5)
UPDATE HW7.DETAILRENTAL SET Detail_ReturnDate = DATEADD(DAY,0,DETAIL_DUEDATE)
    WHERE Rent_Num= 1006 and VID_Num=61367;

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/** reset (for testing)
DROP trigger Hw7.A9;

UPDATE [HW7].[MEMBERSHIP] SET Mem_balance=5 where Mem_Num = 107;

UPDATE [HW7].[DETAILRENTAL] SET Detail_ReturnDate=NULL WHERE Rent_Num= 1006 and
VID_Num=61367;

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