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-- =====
-- Template generated from Template Explorer using:
-- Create Trigger (New Menu).SQL
--
-- Use the Specify Values for Template Parameters
-- command (Ctrl-Shift-M) to fill in the parameter
-- values below.
--
-- See additional Create Trigger templates for more
-- examples of different Trigger statements.
--
-- This block of comments will not be included in
-- the definition of the function.
-- =====
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
-- =====
-- Author:          <Author,,Name>
-- Create date: <Create Date,,>
-- Description:     <Description,,>
-- =====

ALTER TRIGGER A9_TRIGGER
ON DETAILRENTAL
AFTER UPDATE

AS
BEGIN

--SET NOCOUNT ON ADDED TO PREVENT EXTRA RESULTS SETS FROM
--INTERFERING WITH SELECT STATEMENTS

SET NOCOUNT ON;
DECLARE @RENT_NUM INT
DECLARE @PREVDAYS_LATE INT
DECLARE @NEWDAYS_LATE INT
DECLARE @PREVLATEFEE DECIMAL (5,2)
DECLARE @NEWLATEFEE DECIMAL (5,2)
DECLARE @DAILYLATEFEE DECIMAL (5,2)

--CURSOR T ORETURN BOTH THE OLD DATE DIFFERENCE AND THE NEW DATE
DIFFERENCE

DECLARE DETAILCURSOR CURSOR FOR
SELECT I.RENT_NUM, DATEDIFF(DAY, D.DETAIL_DUEDATE, D.DETAIL_RETURNDATE) AS
PREVDAYS_LATE,
        DATEDIFF(DAY, I.DETAIL_DUEDATE, I.DETAIL_RETURNDATE) AS
NEWDAYS_LATE, I.DETAIL_DAILYLATEFEE
FROM INSERTED I INNER JOIN deleted D ON I.RENT_NUM = D.RENT_NUM AND
I.VID_NUM = D.VID_NUM

OPEN DETAILCURSOR

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FETCH NEXT FROM DETAILCURSOR INTO @RENT_NUM, @PREVDAYSlate, @NEWDAYSlate,
@dailylatefee
WHILE (@@FETCH_STATUS = 0)
BEGIN

    --IF THE DATE DIFFERENCE IS NULL, TREAT IS AS 0

    IF @PREVDAYSlate < 0
        SET @PREVLATEFEE = 0
    ELSE
        SET @PREVLATEFEE = ISNULL(@PREVDAYSlate, 0) * @DAILYLATEFEE
    IF @NEWDAYSlate < 0
        SET @NEWLATEFEE = 0
    ELSE
        SET @NEWLATEFEE = ISNULL(@NEWDAYSlate, 0) * @DAILYLATEFEE

--IF THE OLD LATE FEE IS DIFFRENT FROM THE NEW LATE FEE, FIND THE
DIFFERENCE
--THE DIFFERENCE COUL BE POSITIVE OR NEGATIVE

        IF ((@NEWLATEFEE - @PREVLATEFEE) <> 0)
        BEGIN
            UPDATE MEMBERSHIP
            SET MEM_BALANCE = MEM_BALANCE + (@NEWLATEFEE -
@PREVLATEFEE)
            WHERE MEM_NUM = (SELECT MEM_NUM
                                FROM RENTAL
                                WHERE RENT_NUM = @RENT_NUM)
        END
        FETCH NEXT FROM DETAILCURSOR INTO @RENT_NUM, @PREVDAYSlate,
@NEWDAYSlate, @DAILYLATEFEE
        END

        CLOSE DETAILCURSOR
        DEALLOCATE DETAILCURSOR
END

--TEST CODE
--SEE WHAT IS IN THE DETAIL TABLE
SELECT *
FROM DETAILRENTAL

--PICK A SUBSET OF DETAIL ROWS FOR TESTING
SELECT *
FROM DETAILRENTAL
WHERE RENT_NUM IN (1004,1005)

--SET THE LATE FEE TO ONE DOLLAR SO IT IS EASY TO SEE THE EFFECT OF CHANGE
UPDATE DETAILRENTAL
SET Detail_DailyLateFee = 1

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WHERE RENT_NUM IN (1004,1005)

--SET THE DUE DATES AND RETURN DATES SO THAT THEY ARE EASY TO MANIPULATE
FOR TEST PURPOSES
UPDATE DETAILRENTAL
SET Detail_DueDate = '3-10-2013'
WHERE RENT_NUM IN (1004,1005)

--FIND OUT WHO THE CUSTOMERS ARE FOR THOSE RENTALS
SELECT *
FROM MEMBERSHIP
WHERE MEM_NUM IN (SELECT MEM_NUM
                    FROM RENTAL
                    WHERE RENT_NUM IN (SELECT RENT_NUM
                                        FROM DETAILRENTAL
                                        WHERE RENT_NUM IN (1004,1005)))

--SET THE BALANCE OF THOSE CUSTOMERS TO A VALUE EASY TO TRACK
UPDATE MEMBERSHIP
SET MEM_BALANCE = 10
WHERE MEM_NUM IN (110,111)

--STATEMENTS TO CHECK THE RESULTS
SELECT *
FROM DETAILRENTAL
WHERE RENT_NUM IN (1004,1005)

SELECT *
FROM MEMBERSHIP
WHERE MEM_NUM IN (110,111)

--NOW THE UPDATE STATEMENTS
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE = '3-10-2013'
WHERE RENT_NUM IN (1004,1005)

--CHANGE THE DUE DATES BACK TO BE THE SAME AS THE DUE DATES
UPDATE DETAILRENTAL
SET Detail_ReturnDate = '3-13-2013'
WHERE RENT_NUM IN (1004,1005)

--CHANGE THE RETURN DATES TO LATE AGAIN
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE = '3-5-2013'
WHERE RENT_NUM IN (1004,1005)

--THEN CHANGE THEM TO NULL

UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE = NULL
WHERE RENT_NUM IN (1004,1005)

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```
--SET THE BALANCE O THOSE CUSTOMERS TO A VALUE EASY TO TRACK  
UPDATE MEMBERSHIP  
SET MEM_BALANCE = 10
```