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-- A9 #75
DROP TRIGGER TRG_MEM_BALANCE

CREATE TRIGGER TRG_MEM_BALANCE
ON DETAILRENTAL
AFTER INSERT, DELETE, UPDATE
AS
BEGIN
    IF (EXISTS (SELECT *
                FROM INSERTED)
        AND EXISTS (SELECT *
                    FROM DELETED)
        )
    BEGIN
        DECLARE MOVIECURSOR CURSOR FOR
            SELECT I.RENT_NUM, I.VID_NUM, I.DETAIL_DUEDATE, I.DETAIL_RETURNDATE,
            I.DETAIL_DAILYLATEFEE
            FROM INSERTED I INNER JOIN DELETED D ON I.RENT_NUM = D.RENT_NUM AND
            I.VID_NUM = D.VID_NUM

        DECLARE @RENT_NUM INT;
        DECLARE @VID_NUM INT;
        DECLARE @OLD_RETURNDATE DATETIME;
        DECLARE @NEW_RETURNDATE DATETIME;
        DECLARE @OLD_DUEDATE DATETIME;
        DECLARE @NEW_DUEDATE DATETIME;
        DECLARE @OLD_DAILYLATEFEE DECIMAL;
        DECLARE @NEW_DAILYLATEFEE DECIMAL;
        DECLARE @PRIOR_LATEFEE DECIMAL;
        DECLARE @AFTER_LATEFEE DECIMAL;
        DECLARE @UPDATE_AMOUNT DECIMAL;

        OPEN MOVIECURSOR
        FETCH NEXT FROM MOVIECURSOR
        INTO @RENT_NUM, @VID_NUM, @NEW_DUEDATE, @NEW_RETURNDATE,
        @NEW_DAILYLATEFEE,
        @OLD_DUEDATE, @OLD_RETURNDATE, @OLD_DAILYLATEFEE

        WHILE (@@FETCH_STATUS = 0)
        BEGIN
            IF (@OLD_RETURNDATE > @OLD_DUEDATE)
                SELECT @PRIOR_LATEFEE = DATEDIFF(DAY, @OLD_DUEDATE,
                @OLD_RETURNDATE) * @OLD_DAILYLATEFEE;

            ELSE
                SELECT @PRIOR_LATEFEE = 0;

            IF (@NEW_RETURNDATE > @NEW_DUEDATE)
                SELECT @AFTER_LATEFEE = DATEDIFF(DAY, @NEW_DUEDATE,
                @NEW_RETURNDATE) * @NEW_DAILYLATEFEE;

            ELSE
                SELECT @AFTER_LATEFEE = 0;

            IF (@UPDATE_AMOUNT <> 0)
                SELECT @UPDATE_AMOUNT = @AFTER_LATEFEE - @PRIOR_LATEFEE;

            BEGIN

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        DECLARE @MEM_NUM INT;
        SELECT @MEM_NUM = M.MEM_NUM
        FROM RENTAL R INNER JOIN MEMBERSHIP M ON R.MEM_NUM =
M.MEM_NUM
        AND R.RENT_NUM = @RENT_NUM
        UPDATE DETAILRENTAL
        SET DETAIL_FEE = DETAIL_FEE + @UPDATE_AMOUNT
        WHERE RENT_NUM = @RENT_NUM AND VID_NUM = @VID_NUM

        UPDATE MEMBERSHIP
        SET MEM_BALANCE = MEM_BALANCE +
@UPDATE_AMOUNT
        WHERE MEM_NUM = @MEM_NUM
    END
    FETCH NEXT FROM MOVIECURSOR
    INTO @RENT_NUM, @VID_NUM, @NEW_DUEDATE, @NEW_RETURNDATE,
@NEW_DAILYLATEFEE,
        @OLD_DUEDATE, @OLD_RETURNDATE, @OLD_DAILYLATEFEE
    END
    CLOSE MOVIECURSOR
END
END
END

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