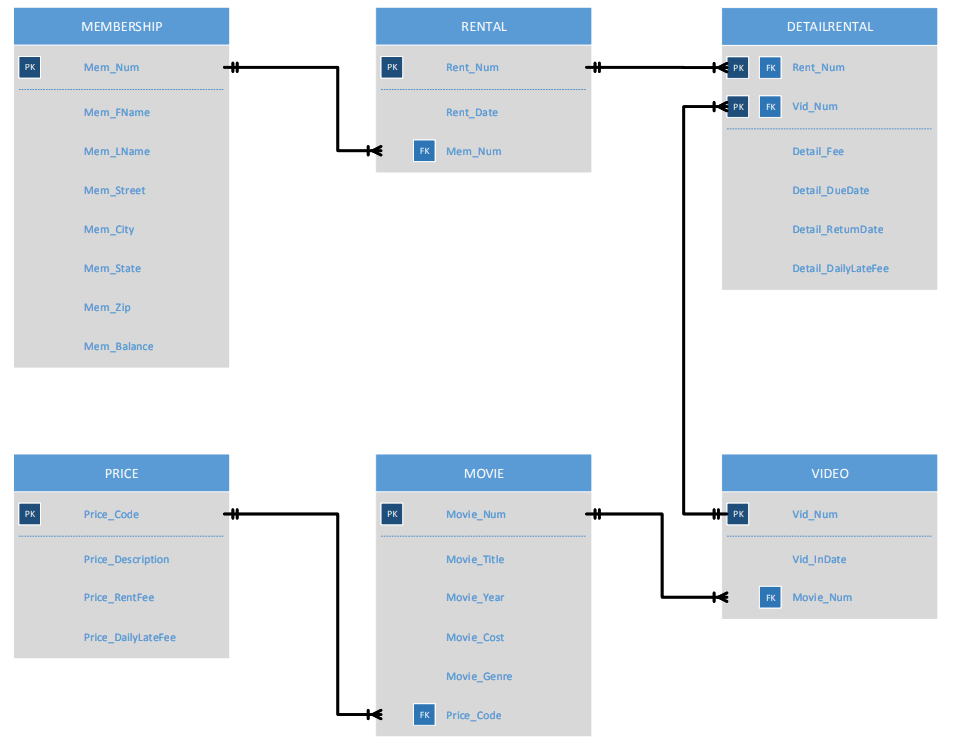
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CIS 310-02

A8

Dr. Guan



CREATE TRIGGER A8

ON DETAILRENTAL

AFTER UPDATE

AS

SELECT \*

FROM INSERTED AS [CONTENTS OF INSERTED]

SELECT \*

FROM DELETED AS [CONTENTS OF DELETED]

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

BEGIN

DECLARE MEM\_BALANCE\_UPDATE\_CURSOR 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

AND I.VID\_NUM = D.VID\_NUM

DECLARE @RENT\_NUM INT

DECLARE @CURRENT\_DUEDATE DATETIME

DECLARE @PAST\_DUEDATE DATETIME

DECLARE @CURRENT\_RETURNDATE DATETIME

DECLARE @PAST\_RETURNDATE DATETIME

DECLARE @CURRENT\_LATEFEE DECIMAL (3,2)

DECLARE @PAST\_LATEFEE DECIMAL (3,2)

DECLARE @BEFORE\_LATEFEE DECIMAL (3,2)

DECLARE @AFTER\_LATEFEE DECIMAL (3,2)

DECLARE @CHANGE\_IN\_LATEFEE DECIMAL (3,2)

DECLARE @NEW\_BALANCE DECIMAL (3,2)

OPEN MEM\_BALANCE\_UPDATE\_CURSOR

FETCH NEXT FROM MEM\_BALANCE\_UPDATE\_CURSOR

INTO @RENT\_NUM, @CURRENT\_DUEDATE, @PAST\_DUEDATE, @CURRENT\_RETURNDATE, @PAST\_RETURNDATE, @CURRENT\_LATEFEE, @PAST\_LATEFEE

WHILE (@@FETCH\_STATUS = 0)

BEGIN

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

BEGIN

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

END

ELSE

SELECT @BEFORE\_LATEFEE = 0

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

BEGIN

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

END

ELSE

SELECT @AFTER\_LATEFEE = 0

SELECT @CHANGE\_IN\_LATEFEE = @AFTER\_LATEFEE - @BEFORE\_LATEFEE

IF (@CHANGE\_IN\_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 = @CHANGE\_IN\_LATEFEE

WHERE MEM\_NUM = @MEM\_NUM

ELSE

UPDATE MEMBERSHIP

SET MEM\_BALANCE = MEM\_BALANCE + @CHANGE\_IN\_LATEFEE

WHERE MEM\_NUM = @MEM\_NUM

UPDATE MEMBERSHIP

SET MEM\_BALANCE = MEM\_BALANCE + @CHANGE\_IN\_LATEFEE

WHERE MEM\_NUM = @MEM\_NUM

FETCH NEXT FROM MEM\_BALANCE\_UPDATE\_CURSOR

INTO @RENT\_NUM, @CURRENT\_DUEDATE, @CURRENT\_RETURNDATE, @CURRENT\_LATEFEE, @PAST\_DUEDATE, @PAST\_RETURNDATE, @PAST\_LATEFEE

END

END

CLOSE MEM\_BALANCE\_UPDATE\_CURSOR

DEALLOCATE MEM\_BALANCE\_UPDATE\_CURSOR

END

UPDATE DETAILRENTAL

SET Detail\_DueDate = '2013-02-04'

WHERE RENT\_NUM = 1006 OR RENT\_NUM = 1007