**A8**

**CIS310-02**

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**MOHR**

**TRIGGER**

**--------------------------------------**

USE [CIS31028]  
GO  
  
alter TRIGGER [dbo].[A9]   
 ON [dbo].[DETAILRENTAL]   
 AFTER UPDATE   
AS   
BEGIN  
 DECLARE @RENT\_NUM INT   
 DECLARE @VID\_NUM INT   
 DECLARE @PRIOR\_RETURN\_DATE DATETIME   
 DECLARE @AFTER\_RETURN\_DATE DATETIME   
 DECLARE @PRIOR\_DUE\_DATE DATETIME  
 DECLARE @AFTER\_DUE\_DATE DATETIME  
 DECLARE @PRIOR\_DAILY\_LATEFEE DECIMAL  
 DECLARE @AFTER\_DAILY\_LATEFEE DECIMAL  
 DECLARE @TOTAL\_PRIOR\_FEE DECIMAL  
 DECLARE @TOTAL\_AFTER\_FEE DECIMAL  
 DECLARE @CHANGE\_VALUE DECIMAL  
   
 IF (EXISTS (SELECT \* FROM inserted) AND EXISTS (SELECT \* FROM deleted))  
 BEGIN   
 DECLARE UPDATE\_CURSOR CURSOR FOR   
 SELECT I.Rent\_Num, I.Vid\_Num, I.Detail\_ReturnDate, I.Detail\_DueDate, I.Detail\_DailyLateFee,   
 D.Detail\_ReturnDate, D.Detail\_DueDate, D.Detail\_DailyLateFee  
 FROM inserted I INNER JOIN DELETED D ON I.Rent\_Num = D.Rent\_Num AND I.Vid\_Num = D.Vid\_Num  
  
  
 OPEN UPDATE\_CURSOR   
 FETCH NEXT FROM UPDATE\_CURSOR   
 INTO @RENT\_NUM, @VID\_NUM, @AFTER\_RETURN\_DATE, @AFTER\_DUE\_DATE, @AFTER\_DAILY\_LATEFEE,   
 @PRIOR\_RETURN\_DATE, @PRIOR\_DUE\_DATE, @PRIOR\_DAILY\_LATEFEE  
 WHILE(@@FETCH\_STATUS = 0)  
 BEGIN   
 IF (@PRIOR\_RETURN\_DATE = @AFTER\_RETURN\_DATE)  
 SELECT @CHANGE\_VALUE = 0  
 ELSE  
 IF(@PRIOR\_RETURN\_DATE = NULL)  
 SELECT @PRIOR\_RETURN\_DATE = @PRIOR\_DUE\_DATE  
 IF(@PRIOR\_RETURN\_DATE > @PRIOR\_DUE\_DATE)  
 SELECT @TOTAL\_PRIOR\_FEE = DATEDIFF(DAY, @PRIOR\_DUE\_DATE, @PRIOR\_RETURN\_DATE) \* @PRIOR\_DAILY\_LATEFEE;  
 ELSE   
 SELECT @TOTAL\_PRIOR\_FEE = 0;   
  
 IF (@AFTER\_DUE\_DATE > @AFTER\_RETURN\_DATE)   
 SELECT @TOTAL\_AFTER\_FEE = DATEDIFF(DAY, @AFTER\_DUE\_DATE, @AFTER\_RETURN\_DATE) \* @AFTER\_DAILY\_LATEFEE;  
 ELSE   
 SELECT @TOTAL\_AFTER\_FEE = 0;  
 IF (@AFTER\_RETURN\_DATE > @PRIOR\_RETURN\_DATE)  
 SELECT @CHANGE\_VALUE = @TOTAL\_AFTER\_FEE - @TOTAL\_PRIOR\_FEE  
 ELSE  
 IF (@AFTER\_RETURN\_DATE < @PRIOR\_RETURN\_DATE)  
 SELECT @CHANGE\_VALUE = @TOTAL\_PRIOR\_FEE - @TOTAL\_AFTER\_FEE  
 ELSE   
 SELECT @CHANGE\_VALUE = 0  
  
 IF(@CHANGE\_VALUE <> 0)  
 BEGIN   
 DECLARE @MEMBER\_NUM INT;   
 SELECT @MEMBER\_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 + @CHANGE\_VALUE  
 --WHERE Rent\_Num = @RENT\_NUM AND Vid\_Num = @VID\_NUM  
   
 UPDATE MEMBERSHIP  
 SET Mem\_Balance = Mem\_Balance - @CHANGE\_VALUE  
 WHERE Mem\_Num = @MEMBER\_NUM  
 END  
   
 FETCH NEXT FROM UPDATE\_CURSOR   
 INTO @RENT\_NUM, @VID\_NUM, @AFTER\_RETURN\_DATE, @AFTER\_DUE\_DATE, @AFTER\_DAILY\_LATEFEE,   
 @PRIOR\_RETURN\_DATE, @PRIOR\_DUE\_DATE, @PRIOR\_DAILY\_LATEFEE  
 END   
 CLOSE UPDATE\_CURSOR   
 DEALLOCATE UPDATE\_CURSOR   
 END   
END

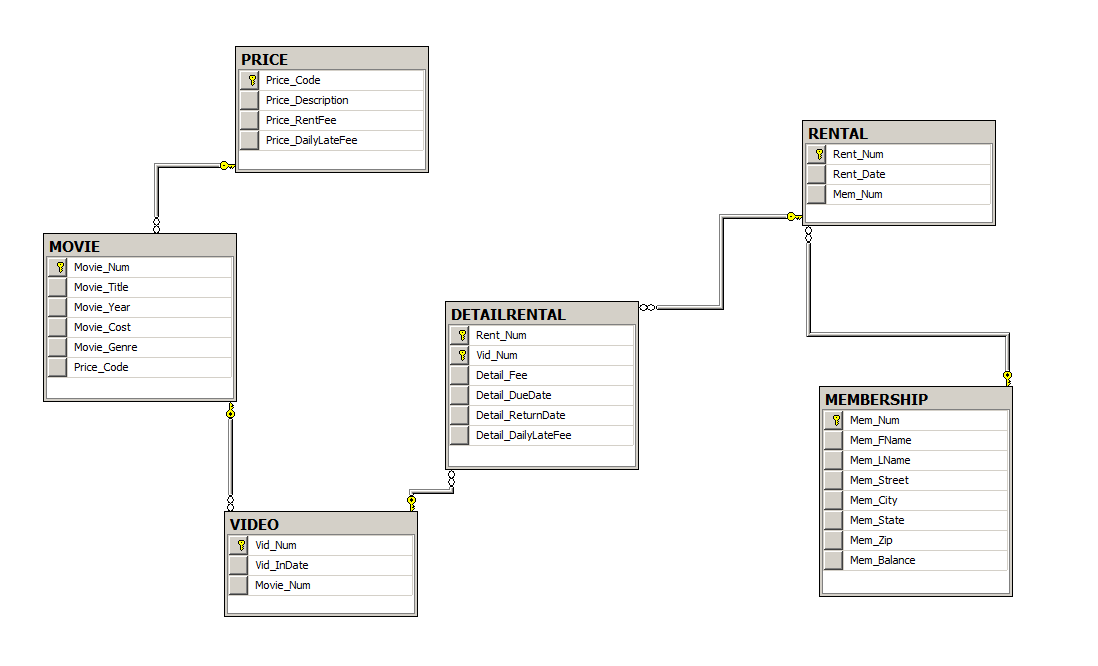
**TEST QUERY**

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--A8 Test Queries  
  
--Show Tables  
SELECT \*  
FROM DETAILRENTAL   
  
SELECT \*  
FROM MEMBERSHIP  
  
--Month Later  
UPDATE DETAILRENTAL  
SET Detail\_ReturnDate = '4-12-2013'  
WHERE Rent\_Num = 1006 OR Rent\_Num = 1007   
  
--Due Earlier  
UPDATE DETAILRENTAL  
SET Detail\_DueDate = '3-2-2013'  
WHERE Rent\_Num = 1006 OR Rent\_Num = 1007

**TEST QUERY**

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