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--TRIGGER EXAMPLE FEB 8 2017-- similar to A9
--1. Find a set of transactions for testing purposes
SELECT *
FROM ORDER_LINE
WHERE ORDER_NUM=51610 OR ITEM_NUM='FD11'
--2. Number of transactions involving the affected items
SELECT ITEM_NUM, COUNT(*) AS[ITEM COUNT]
FROM ORDER_LINE
WHERE ORDER_NUM= 51610 OR ITEM_NUM='FD11'
GROUP BY ITEM_NUM
--3. Inventory level for the affected items
SELECT ITEM_NUM, ON_HAND
FROM ITEM
WHERE ITEM_NUM IN ('FD11', 'KL78', 'TR40')
--4. This statement will reset all the number ordered to 10 so it is easy to check them
in testing
UPDATE ORDER_LINE
SET NUM_ORDERED=10
WHERE ORDER_NUM=51610 OR ITEM_NUM='FD11'

--5. This statement will add 10 to each order.
--this means the inventory for each item involved will be reduced by the same amount
UPDATE ORDER_LINE
SET NUM_ORDERED=NUM_ORDERED+10
WHERE ORDER_NUM=51610 OR ITEM_NUM='FD11'
--6.Same as above but reerse the effect from above
UPDATE ORDER_LINE
SET NUM_ORDERED=NUM_ORDERED-10
WHERE ORDER_NUM=51610 OR ITEM_NUM='FD11'
GO
CREATE TRIGGER [dbo].[UPDATE_ON_HAND]
ON [dbo].[ORDER_LINE]
AFTER INSERT, DELETE, UPDATE
AS
BEGIN
DECLARE @ITEM_NUM CHAR(4)
DECLARE @TOTAL INT
--INSERT CASE
IF(EXISTS(SELECT* FROM INSERTED)
AND NOT EXISTS
(SELECT * FROM DELETED))
BEGIN
--LOGIC TO HANDLE RECORDS IN INSERTED
DECLARE INSERTED_CURSOR CURSOR FOR
SELECT ITEM_NUM, SUM(NUM_ORDERED) AS [TOTAL]
FROM INSERTED
GROUP BY ITEM_NUM

OPEN INSERTED_CURSOR
FETCH NEXT FROM INSERTED_CURSOR
INTO @ITEM_NUM, @TOTAL
WHILE(@@FETCH_STATUS=0)
BEGIN
UPDATE ITEM
SET ON_HAND=ON_HAND-@TOTAL
WHERE ITEM_NUM=@ITEM_NUM

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FETCH NEXT FROM INSERTED_CURSOR
    INTO @ITEM_NUM, @TOTAL
END
CLOSE INSERTED_CURSOR
DEALLOCATE INSERTED_CURSOR
END
--7.DELETE CASE
IF(EXISTS (SELECT * FROM DELETED) AND NOT EXISTS(SELECT* FROM INSERTED))
BEGIN

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--LOGIC TO HANDLE RECORDS IN INSERT
DECLARE DELETED_CURSOR CURSOR FOR
SELECT ITEM_NUM, SUM(NUM_ORDERED) AS [TOTAL]
FROM DELETED
GROUP BY ITEM_NUM

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OPEN DELETED_CURSOR
FETCH NEXT FROM DELETED_CURSOR
    INTO @ITEM_NUM, @TOTAL

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WHILE (@@FETCH_STATUS=0)
BEGIN
UPDATE ITEM
SET ON_HAND=ON_HAND+@TOTAL
WHERE ITEM_NUM=@ITEM_NUM
FETCH NEXT FROM DELETED_CURSOR
    INTO @ITEM_NUM, @TOTAL
END
CLOSE DELETED_CURSOR
DEALLOCATE DELETED_CURSOR
END

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--8. UPDATE CASE
IF(EXISTS(SELECT* FROM DELETED) AND EXISTS(SELECT * FROM INSERTED))
BEGIN
--LOGIC TO HANDLE RECORDS IN AN UPDATE CASE
DECLARE UPDATE_CURSOR CURSOR FOR
SELECT I.ITEM_NUM, SUM(I.NUM_ORDERED-D.NUM_ORDERED) AS [TOTAL]
FROM DELETED D INNER JOIN INSERTED I ON D.ORDER_NUM=I.ORDER_NUM AND D.ITEM_NUM=I.ITEM_NUM
GROUP BY I.ITEM_NUM

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OPEN UPDATE_CURSOR
FETCH NEXT FROM UPDATE_CURSOR
    INTO @ITEM_NUM, @TOTAL
WHILE (@@FETCH_STATUS=0)
BEGIN
UPDATE ITEM

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SET ON_HAND=ON_HAND-@TOTAL
WHERE ITEM_NUM=@ITEM_NUM
FETCH NEXT FROM UPDATE_CURSOR
      INTO @ITEM_NUM, @TOTAL
END
CLOSE UPDATE_CURSOR
DEALLOCATE UPDATE_CURSOR
END
END
--A9
DROP TRIGGER A9PRAC
CREATE TRIGGER A9PRAC
ON DETAILRENTAL
AFTER UPDATE
AS
BEGIN

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--SET NOCOUNT ON added to prevent extra result sets from interfering with SELECT
statements
SET NOCOUNT ON;
DECLARE @RENT_NUM INT
DECLARE @PREVDAYS�ATE INT
DECLARE @NEWDAYS�ATE INT
DECLARE @PREVLATEFEE DECIMAL (5,2)
DECLARE @NEWLATEFEE DECIMAL (5,2)
DECLARE @DAILYLATEFEE DECIMAL (5,2)
--cursor to return 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�ATE], DATEDIFF(DAY, I.DETAIL_DUEDATE, I.DETAIL_RETURNDATE) AS
      [NEWDAYS�ATE], 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
FETCH NEXT FROM DETAILCURSOR INTO @RENT_NUM, @PREVDAYS�ATE, @NEWDAYS�ATE, @DAILYLATEFEE
WHILE (@@FETCH_STATUS=0)
BEGIN
--If the date difference is null, treat it as 0.
IF @PREVDAYS�ATE<0
      SET @PREVLATEFEE=0
ELSE
      SET @PREVLATEFEE=ISNULL(@PREVDAYS�ATE,0)*@DAILYLATEFEE
IF @NEWDAYS�ATE<0
      SET @NEWLATEFEE=0
ELSE
      SET @NEWLATEFEE=ISNULL(@NEWDAYS�ATE,0)*@DAILYLATEFEE
--if the old late fee is different from the new late fee, find the difference; the
difference could 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

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        WHERE RENT_NUM=@RENT_NUM
    )
END
FETCH NEXT
FROM DETAILCURSOR INTO @RENT_NUM,@PREVDAYSATE,@NEWDAYSATE,@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
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)
--STATEMENT 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
--INCREASE THE RETURN DATE TO CAUSE A LATE FEE
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE = '3-13-2013'
WHERE RENT_NUM IN (1004,1005)
--CHANGE THE DUE DATES BACK TO BE THE SAME AS THE DUE DATES
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE='3-10-2013'
WHERE RENT_NUM IN (1004,1005)
--CHANGE THE RETURN DATES TO LATE AGAIN

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UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE='3-13-2013'
WHERE RENT_NUM IN (1004,1005)
--THEN CHANGE THEM TO BEFORE THE DUE DATES
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE ='3-5-2013'
WHERE RENT_NUM IN (1004,1005)
--THEN CHANGE THE TO NULL
UPDATE DETAILRENTAL
SET DETAIL_RETURNDATE=NULL
WHERE RENT_NUM IN (1004,1005)

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--A10 PART 2
--CREATING THE TABLES FOR THE DATA WAREHOUSE
--THESE DROP TABLE STATEMENTS CAN BE USED TO DROP ALL THE TABLES SO THEY CAN BE
RECREATED IN CASE THE TABLES NEED TO BE RECREATED

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DROP TABLE FACT
DROP TABLE TIMEDIM
DROP TABLE PILOTDIM
DROP TABLE PLANEDIM
DROP TABLE STAGING

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CREATE TABLE TimeDim
(
    TIMEKEY INT IDENTITY NOT NULL,
    CHAR_DATE DATETIME,
    YEAR DATE,
    MONTH CHAR(15),
    QUARTER DECIMAL(2,0)
);
CREATE TABLE PilotDim
(
    PILOTKEY INT IDENTITY NOT NULL,
    EMP_NUM INT,
    EMP_FNAME CHAR(15),
    EMP_LNAME CHAR(20),
    EMP_TITLE CHAR (20),
    EMP_HIRE_DATE DATE
);
CREATE TABLE PlaneDim
(
    PLANEKEY INT IDENTITY NOT NULL,
    AC_NUMBER NVARCHAR(5),
    MOD_CODE NVARCHAR(10),
    MOD_NAME NVARCHAR(20),
    MOD_CHG_MILE REAL
);
CREATE TABLE Fact
(

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        TIMEKEY INT NOT NULL,
        PILOTKEY INT NOT NULL ,
        PLANEKEY INT NOT NULL ,
        CHAR_FUEL_GALLONS float,
        CHAR_DISTANCE REAL,
        REVENUE DECIMAL(10,2)
    );
CREATE TABLE STAGING
(
    TIMEKEY INT,
    PILOTKEY INT ,
    PLANEKEY INT ,
    CHAR_FUEL_GALLONS FLOAT,
    CHAR_DISTANCE REAL,
    REVENUE DECIMAL(10,2),
    EMP_NUM INT,
    AC_NUMBER NVARCHAR(5),
    MOD_CODE NVARCHAR(10),
    CHAR_DATE datetime
);

ALTER TABLE TIMEDIM
    ADD CONSTRAINT PK_TIMEDIM PRIMARY KEY (TIMEKEY)
ALTER TABLE PILOTDIM
    ADD CONSTRAINT PK_PILOTDIM PRIMARY KEY (PILOTKEY)
ALTER TABLE PLANEDIM
    ADD CONSTRAINT PK_PLANEDIM PRIMARY KEY (PLANEKEY)
ALTER TABLE FACT
ADD
    CONSTRAINT FK_FACT_TIMEDIM FOREIGN KEY (TIMEKEY) REFERENCES TIMEDIM,
    CONSTRAINT FK_FACT_PILOTDIM FOREIGN KEY (PILOTKEY) REFERENCES PILOTDIM,
    CONSTRAINT FK_FACT_PLANEDIM FOREIGN KEY (PLANEKEY) REFERENCES PLANEDIM,
    CONSTRAINT PK_FACT_TIMEDIM PRIMARY KEY (TIMEKEY, PILOTKEY, PLANEKEY)
--PART 3 A10
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
-- =====
-- Author:          Nga Nguyen
-- Create date: 4-6-17, Due 4-12-17
-- Description:      A10P3 STORED PROCEDURE
-- =====
CREATE PROCEDURE A10P3
AS
BEGIN
DECLARE @TIMEDIM INT;
DECLARE @PILOTDIM INT;
DECLARE @PLANEDIM INT;
DECLARE @FACT INT;

SET @TIMEDIM = (SELECT COUNT (*) FROM TIMEDIM);
SET @PILOTDIM = (SELECT COUNT (*) FROM PILOTDIM);
SET @PLANEDIM = (SELECT COUNT (*) FROM PLANEDIM);
SET @FACT = (SELECT COUNT (*) FROM FACT);

IF ((@TIMEDIM +@PILOTDIM+@PLANEDIM+@FACT) >0)
BEGIN

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ALTER TABLE FACT
DROP CONSTRAINT FK_FACT_TIMEDIM,
        CONSTRAINT FK_FACT_PILOTDIM ,
        CONSTRAINT FK_FACT_PLANEDIM ,
        CONSTRAINT PK_FACT_TIMEDIM ;
ALTER TABLE TIMEDIM
DROP CONSTRAINT PK_TIMEDIM;
ALTER TABLE PLANEDIM
DROP CONSTRAINT PK_PLANEDIM ;
ALTER TABLE PILOTDIM
DROP CONSTRAINT PK_PILOTDIM;

```

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TRUNCATE TABLE STAGING;
TRUNCATE TABLE FACT;
TRUNCATE TABLE TIMEDIM;
TRUNCATE TABLE PLANEDIM;
TRUNCATE TABLE PILOTDIM;

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ALTER TABLE TIMEDIM
ADD CONSTRAINT PK_TIMEDIM PRIMARY KEY (TIMEKEY)
ALTER TABLE PLANEDIM
ADD CONSTRAINT PK_PLANEDIM PRIMARY KEY (PLANEKEY)
ALTER TABLE PILOTDIM
ADD CONSTRAINT PK_PILOTDIM PRIMARY KEY (PILOTKEY)
ALTER TABLE FACT
ADD
CONSTRAINT FK_FACT_TIMEDIM FOREIGN KEY (TIMEKEY) REFERENCES TIMEDIM,
CONSTRAINT FK_FACT_PILOTDIM FOREIGN KEY (PILOTKEY) REFERENCES PILOTDIM,
CONSTRAINT FK_FACT_PLANEDIM FOREIGN KEY (PLANEKEY) REFERENCES PLANEDIM,
CONSTRAINT PK_FACT_TIMEDIM PRIMARY KEY (TIMEKEY, PILOTKEY, PLANEKEY)
END
--WILL POPULATE THE TIME DIMENSION
INSERT INTO TIMEDIM(CHAR_DATE, YEAR, MONTH, QUARTER)
SELECT CHAR_DATE, YEAR (CHAR_DATE), MONTH (CHAR_DATE), DATEPART (QUARTER, CHAR_DATE)
FROM CHARTER
GROUP BY CHAR_DATE;
--POPULATE PILOT DIMENSION
INSERT INTO PILOTDIM (EMP_NUM, EMP_FNAME, EMP_LNAME, EMP_HIRE_DATE)
SELECT EMP_NUM, EMP_FNAME, EMP_LNAME, EMP_HIRE_DATE
FROM EMPLOYEE
--POPULATE PLANE DIMENSION
INSERT INTO PLANEDIM (AC_NUMBER, MOD_CODE, MOD_NAME, MOD_CHG_MILE)
SELECT A.AC_NUMBER, M.MOD_CODE, M.MOD_NAME, M.MOD_CHG_MILE
FROM AIRCRAFT A INNER JOIN MODEL M ON A.MOD_CODE=M.MOD_CODE
--THE DIMENSIONS ARE POPULATED NOW.
INSERT INTO STAGING (CHAR_DATE, EMP_NUM, AC_NUMBER, CHAR_DISTANCE,
CHAR_FUEL_GALLONS,REVENUE, PILOTKEY, PLANEKEY,TIMEKEY )
SELECT C.CHAR_DATE, E.EMP_NUM, C.AC_NUMBER, C.CHAR_DISTANCE, C.CHAR_FUEL_GALLONS,
(M.MOD_CHG_MILE*C.CHAR_FUEL_GALLONS) AS [REVENUE], PD.PILOTKEY,PLD.PLANEKEY,TD.TIMEKEY
FROM CHARTER C INNER JOIN CREW CR ON C.CHAR_TRIP=CR.CHAR_TRIP INNER JOIN EMPLOYEE E ON
CR.EMP_NUM=E.EMP_NUM
        INNER JOIN AIRCRAFT A ON C.AC_NUMBER=A.AC_NUMBER INNER JOIN MODEL M ON
A.MOD_CODE=M.MOD_CODE
        INNER JOIN PILOTDIM PD ON E.EMP_NUM=PD.EMP_NUM INNER JOIN PLANEDIM PLD ON
C.AC_NUMBER=PLD.AC_NUMBER

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INNER JOIN TIMEDIM TD ON C.CHAR_DATE=TD.CHAR_DATE
INSERT INTO FACT(PILOTKEY,PLANEKEY,TIMEKEY,CHAR_DISTANCE,CHAR_FUEL_GALLONS, REVENUE)
SELECT PILOTKEY, PLANEKEY, TIMEKEY, CHAR_DISTANCE, CHAR_FUEL_GALLONS, REVENUE
FROM STAGING
TRUNCATE TABLE STAGING;
END
GO
EXECUTE A10P3;
--A10P4
--QUERY 1
SELECT CONCAT (PD.EMP_LNAME, ', ', PD.EMP_FNAME) AS [NAME], F.CHAR_DISTANCE AS [TOTAL
MILES]
FROM FACT F INNER JOIN PILOTDIM PD ON F.PILOTKEY=PD.PILOTKEY
WHERE F.CHAR_DISTANCE = (SELECT MAX (CHAR_DISTANCE)
FROM FACT);

--QUERY 2
SELECT PD.MOD_NAME, TD.MONTH, SUM (F.REVENUE) AS [TOTAL REVENUE]
FROM FACT F INNER JOIN PLANEDIM PD ON F.PLANEKEY=PD.PLANEKEY INNER JOIN TIMEDIM TD ON
F.TIMEKEY=TD.TIMEKEY
GROUP BY PD.MOD_NAME, TD.MONTH
ORDER BY PD.MOD_NAME ASC, TD.MONTH ASC;
--A11 SOLUTIONS
|--70
ALTER TABLE VIDEO
ADD VID_STATUS CHAR(4) NOT NULL DEFAULT 'IN' CHECK (VID_STATUS IN ('IN', 'OUT', 'LOST'))
|--71
UPDATE VIDEO
SET VID_STATUS = 'OUT'
WHERE VID_NUM IN (SELECT VID_NUM FROM DETAILRENTAL WHERE DETAIL_RETURNDATE IS NULL)
|--72
ALTER TABLE PRICE
ADD PRICE_RENTDAYS INT NOT NULL DEFAULT 3
|--73
UPDATE PRICE
SET PRICE_RENTDAYS = 5
WHERE PRICE_CODE = 1 OR PRICE_CODE = 3
UPDATE PRICE
SET PRICE_RENTDAYS = 7
WHERE PRICE_CODE = 4

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--78|
ALTER PROCEDURE [dbo].[PRC_NEW_DETAIL]
    @VID_NUM_TEMP INT,
    @RENT_NUM INT
AS
BEGIN
    DECLARE @STATUS_TEMP    VARCHAR(4)
    DECLARE @RENT_FEE        MONEY
    DECLARE @LATE_FEE        MONEY
    DECLARE @RENT_DAYS        INT
    DECLARE @DUE_DATE        DATETIME
    DECLARE @VID_NUM_COUNT    INT

    SELECT    @VID_NUM_COUNT =Count(*)
    FROM      VIDEO
    WHERE     VID_NUM =@VID_NUM_TEMP

    IF (@VID_NUM_COUNT = 0)
    BEGIN
        PRINT 'No Video with number ' + @VID_NUM_TEMP + ' was found.'
    END
    IF NOT EXISTS(SELECT * FROM RENTAL WHERE RENT_NUM = @RENT_NUM)
    BEGIN
        PRINT 'Rent number ' + @RENT_NUM + ' was found.'
    END
    ELSE
    BEGIN
        SELECT    @STATUS_TEMP=VID_STATUS
        FROM      VIDEO
        WHERE     VID_NUM = @VID_NUM_TEMP;

        IF @STATUS_TEMP <> 'IN'
            PRINT 'The video is not currently IN. Video return must be entered before it can be rented again.'
        ELSE
        BEGIN
            SELECT    @RENT_FEE=P.PRICE_RENTFEE, @LATE_FEE=P.PRICE_DAILYLATEFEE
            FROM      VIDEO V INNER JOIN MOVIE M ON M.MOVIE_NUM = V.MOVIE_NUM
                     INNER JOIN PRICE P ON P.PRICE_CODE = M.PRICE_CODE
            WHERE     VID_NUM = @VID_NUM_TEMP;

            SET @DUE_DATE = DATEADD(DAY, 3, GETDATE())

            INSERT INTO DETAILRENTAL(RENT_NUM, VID_NUM, DETAIL_FEE, DETAIL_DUEDATE, DETAIL_DAILYLATEFEE)
            VALUES (@RENT_NUM, @VID_NUM_TEMP, @RENT_FEE, @DUE_DATE, @LATE_FEE);

            UPDATE VIDEO
            SET VID_STATUS = 'OUT'
            WHERE VID_NUM = @VID_NUM_TEMP;
        END
    END
END

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--79

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ALTER PROCEDURE PRC_RETURN_VIDEO  
    @VID_NUM_TEMP INT
```

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AS
```

```
BEGIN
```

```
    DECLARE @VID_NUM_COUNT INT
```

```
    DECLARE @RENTALS_COUNT INT
```

```
    SELECT @VID_NUM_COUNT=Count(*)
```

```
    FROM VIDEO
```

```
    WHERE VID_NUM = @VID_NUM_TEMP;
```

```
    IF @VID_NUM_COUNT = 0
```

```
        PRINT 'Video number ' + CONVERT(VARCHAR(10), @VID_NUM_TEMP) + ' not found.'
```

```
    ELSE
```

```
    BEGIN
```

```
        SELECT @RENTALS_COUNT=Count(*)
```

```
        FROM DETAILRENTAL
```

```
        WHERE VID_NUM = @VID_NUM_TEMP AND DETAIL_RETURNDATE IS NULL
```

```
        IF @RENTALS_COUNT > 1
```

```
            PRINT 'ERROR: Video has multiple outstanding Rentals.'
```

```
        ELSE
```

```
        BEGIN
```

```
            UPDATE VIDEO
```

```
            SET VID_STATUS = 'IN'
```

```
            WHERE VID_NUM = @VID_NUM_TEMP;
```

```
        IF @RENTALS_COUNT = 0
```

```
            PRINT 'No rentals found. Video is available for rental.'
```

```
        ELSE
```

```
        BEGIN
```

```
            UPDATE DETAILRENTAL
```

```
            SET DETAIL_RETURNDATE = CONVERT(DATETIME, CONVERT(CHAR(8), GETDATE()))
```

```
            WHERE VID_NUM = @VID_NUM_TEMP AND DETAIL_RETURNDATE IS NULL
```

```
            PRINT 'Video successfully returned and available for rental.'
```

```
        END
```

```
    END
```

```
END
```

```
END
```