

```
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--CIS310-01
--A9
--30 Nov 2015
```

```
USE [CIS31009]
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

```
ALTER TRIGGER [dbo].[A9TRIGGER]
ON [dbo].[LGLINE]
AFTER INSERT, DELETE, UPDATE
AS
BEGIN
```

```
    DECLARE @PROD_SKU CHAR (15)
    DECLARE @TOTAL INT
```

```
    IF (EXISTS (SELECT * FROM INSERTED) AND
        NOT EXISTS(SELECT * FROM DELETED))
```

```
    BEGIN
```

```
        DECLARE INSERTED_CURSOR CURSOR FOR
        SELECT PROD_SKU, SUM(LINE_QTY) AS TOTAL
        FROM INSERTED
        GROUP BY PROD_SKU
```

```
        OPEN INSERTED_CURSOR
        FETCH NEXT FROM INSERTED_CURSOR
        INTO @PROD_SKU, @TOTAL
        WHILE(@@FETCH_STATUS = 0)
```

```
    BEGIN
```

```
        UPDATE LGPRODUCT
        SET PROD_QOH = PROD_QOH - @TOTAL
        WHERE PROD_SKU = @PROD_SKU
        FETCH NEXT FROM INSERTED_CURSOR INTO @PROD_SKU, @TOTAL
```

```
    END
```

```
    CLOSE INSERTED_CURSOR
    DEALLOCATE INSERTED_CURSOR
```

```
    IF (EXISTS (SELECT * FROM DELETED) AND
        NOT EXISTS(SELECT * FROM INSERTED))
```

```
    BEGIN
```

```
        DECLARE DELETED_CURSOR CURSOR FOR
        SELECT PROD_SKU, SUM(LINE_QTY) AS TOTAL
        FROM DELETED
        GROUP BY PROD_SKU
```

```
        OPEN DELETED_CURSOR
        FETCH NEXT FROM DELETED_CURSOR
        INTO @PROD_SKU, @TOTAL
        WHILE(@@FETCH_STATUS = 0)
```

```
    BEGIN
```

```
        UPDATE LGPRODUCT
        SET PROD_QOH = PROD_QOH + @TOTAL
```

```

        WHERE PROD_SKU = @PROD_SKU
        FETCH NEXT FROM DELETED_CURSOR
        INTO @PROD_SKU, @TOTAL
    END
    CLOSE DELETED_CURSOR
    DEALLOCATE DELETED_CURSOR

    IF (EXISTS(SELECT * FROM DELETED) AND
    EXISTS(SELECT * FROM INSERTED))
    BEGIN
        DECLARE UPDATE_CURSOR CURSOR FOR
        SELECT I.PROD_SKU, SUM(I.LINE_QTY-D.LINE_QTY) AS TOTAL
        FROM DELETED D INNER JOIN INSERTED I
            ON D.LINE_QTY = I.LINE_QTY AND D.PROD_SKU = I.PROD_SKU
        GROUP BY I.PROD_SKU

        OPEN UPDATE_CURSOR
        FETCH NEXT FROM UPDATE_CURSOR
        INTO @PROD_SKU, @TOTAL
        WHILE (@@FETCH_STATUS=0)
        BEGIN
            UPDATE LGPRODUCT
            SET PROD_QOH = PROD_QOH - @TOTAL
            WHERE PROD_SKU = @PROD_SKU
            FETCH NEXT FROM UPDATE_CURSOR
            INTO @PROD_SKU, @TOTAL
        END
        CLOSE UPDATE_CURSOR
        DEALLOCATE UPDATE_CURSOR
    END

    END

END

END

---TEST QUANTITIES
SELECT *
FROM LGLINE

DELETE FROM LGLINE
WHERE PROD_SKU = '6041-PBS'

INSERT INTO LGLINE
VALUES(104,1,'6041-PBS',5,7.49)

UPDATE LGLINE
SET LINE_QTY = LINE_QTY + 10
WHERE INV_NUM = '104' AND PROD_SKU = '8523-UCB'

```