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CREATE TRIGGER A9_UPDATE_PRODUCT_QOH_TRIGGER ON LGLINE
AFTER INSERT, DELETE, UPDATE
AS
BEGIN
    DECLARE      @PROD_SKU NVARCHAR(15)
    DECLARE      @TOTAL INT
    IF      (EXISTS(SELECT *
                        FROM  INSERTED))

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 --ordering more = inventory decreases
        WHERE PROD_SKU = @PROD_SKU
        FETCH  NEXT FROM INSERTED_CURSOR
            INTO @PROD_SKU, @TOTAL

        END

        CLOSE INSERTED_CURSOR

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        DEALLOCATE INSERTED_CURSOR
END
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```
IF(EXISTS (SELECT *
            FROM DELETED))
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 --products returned = inventory increases
    WHERE PROD_SKU = @PROD_SKU
    FETCH  NEXT FROM DELETED_CURSOR
            INTO @PROD_SKU, @TOTAL

    END

    CLOSE DELETED_CURSOR
    DEALLOCATE DELETED_CURSOR
END
```

END

GO

--Test Data

-- Shows the INV\_NUM = 1013, LINE\_NUM = 3, PROD\_SKU = 8207-YYG, LINE\_QTY = 4, and LINE\_PRICE = 34.49

SELECT \*

FROM LGLINE

WHERE INV\_NUM = 1013 AND

PROD\_SKU = '8207-YYG'

-- Original PROD\_QOH for 8207-YYG is 4

-- updated PROD\_QOH will subtract 4

UPDATE LGLINE

SET LINE\_QTY = LINE\_QTY + 4

WHERE INV\_NUM = 1013 AND

PROD\_SKU = '8207-YYG'

-- Shows the results of the update in the LGPRODUCT table due to the Trigger

SELECT \*

FROM LGPRODUCT

WHERE PROD\_SKU = '8207-YYG'

-- Reverses the previous update

-- updated PROD\_QOH will increase by 4

UPDATE LGLINE

SET LINE\_QTY = LINE\_QTY - 4

WHERE INV\_NUM = 1013 AND

PROD\_SKU = '8207-YYG'

-- Shows the results of the update in the LGPRODUCT table due to the Trigger

SELECT \*

FROM LGPRODUCT

WHERE PROD\_SKU = '8207-YYG'

-- Deletes this record

DELETE

FROM LGLINE

WHERE INV\_NUM = 285 AND

PROD\_SKU = '4241-UOF'

--INV\_NUM = 285, LINE\_NUM = 2, PROD\_SKU= 4241-UOF, LINE\_QTY = 1, LINE\_PRICE = 13.59

-- Original PROD\_QOH is 49

-- Checks to see that the deleted item was deleted

-- PROD\_QOH is now 50, which shows that the inventory was increased since the invoice was deleted

SELECT \*

FROM LGPRODUCT

WHERE PROD\_SKU = '4241-UOF'

-- Inserts the deleted record back into the database

INSERT INTO LGLINE

VALUES(285, 2, '4241-UOF', 1, 13.59)