```sql
-- CIS310-02
-- Turner Barnett
-- Assignment 9
-- Due Date: November 15, before 11am
-- Late Submission Date: November 17 6pm

-- PART 2
CREATE TRIGGER A9
    ON LGLINE
    AFTER INSERT, DELETE, UPDATE
AS
BEGIN
        DECLARE @INV_NUM INT
        DECLARE @INV_TOTAL INT

        -- INSERT
        IF (EXISTS (SELECT * FROM INSERTED) AND
            NOT EXISTS ( SELECT * FROM DELETED))
        BEGIN
            DECLARE INSERT_CURSOR CURSOR FOR
            SELECT INV_NUM, SUM(line_qty * line_price) AS TOTAL
            FROM INSERTED
            GROUP BY INV_NUM

            OPEN    INSERT_CURSOR
            FETCH NEXT FROM INSERT_CURSOR INTO @INV_NUM, @INV_TOTAL
            WHILE (@@FETCH_STATUS = 0)
            BEGIN
                UPDATE  lginvoice
                SET     @INV_TOTAL = LINE_PRICE * LINE_QTY
                WHERE INV_NUM = @INV_NUM
                FETCH NEXT FROM INSERT_CURSOR INTO @INV_NUM, @INV_TOTAL
            END
            CLOSE INSERT_CURSOR
            DEALLOCATE INSERT_CURSOR
        END
        -- DELETE
        IF (EXISTS (SELECT * FROM DELETED) AND
            NOT EXISTS (SELECT * FROM INSERTED))
        BEGIN
            DECLARE     DELETE_CURSOR CURSOR FOR
            SELECT INV_NUM, SUM(line_qty * line_price) AS TOTAL
            FROM DELETED
            GROUP BY INV_NUM

            OPEN    DELETE_CURSOR
            FETCH NEXT FROM DELETED_CURSOR INTO @INV_NUM, @INV_TOTAL
            WHILE (@@FETCH_STATUS = 0)
            BEGIN
                UPDATE  lginvoice
                SET     @INV_TOTAL = LINE_PRICE * LINE_QTY
                WHERE   INV_TOTAL = @INV_TOTAL
                FETCH NEXT FROM DELETE_CURSOR INTO @INV_NUM, @INV_TOTAL
            END
            CLOSE DELETE_CURSOR
            DEALLOCATE DELETE_CURSOR
        END

        -- UPDATE
        IF (EXISTS (SELECT * FROM DELETED) AND
        NOT EXISTS (SELECT * FROM INSERTED))
        BEGIN
                DECLARE CURSOR_UPDATE CURSOR FOR
                SELECT I.INV_NUM, INV_TOTAL AS TOTAL
                FROM INSERTED I INNER JOIN DELETED D ON I.inv_num = D.inv_num
                GROUP BY I.inv_num

                OPEN CURSOR_UPDATE
                FETCH NEXT FROM CURSOR_UPDATE INTO @INV_NUM, @INV_TOTAL
```

```sql
                        WHILE (@@FETCH_STATUS = 0)
                        BEGIN
                                UPDATE  lginvoice
                                SET @INV_TOTAL = LINE_PRICE * LINE_QTY
                                WHERE INV_TOTAL = @INV_TOTAL
                                FETCH NEXT FROM CURSOR_UPDATE INTO @INV_NUM, @INV_TOTAL
                        END
                CLOSE CURSOR_UPDATE
                DEALLOCATE CURSOR_UPDATE
                END
END
GO

--PART 3

SELECT *
FROM LGLINE
ORDER BY inv_num

--INSERT
INSERT INTO LGLINE (inv_num, line_num, prod_sku, line_qty, line_price)
VALUES ('103','2','6056-PBS','6','8.59'), ('102','1','6056-PBS','6','8.59'),
('101','3','6056-PBS','6','8.59')

SELECT * FROM LGLINE
WHERE INV_NUM IN (101,102,103)

--UPDATE

UPDATE LGLINE
SET line_qty = line_qty+8
WHERE inv_num IN (101,102,103)

--DELETE
DELETE
FROM LGLINE
WHERE inv_num IN (101,102,103)

SELECT INV_NUM, INV_TOTAL
FROM LGINVOICE
ORDER BY INV_NUM
```