

Paige Fenwick

CIS31009

PART 1

```
SELECT CUST_CODE, CUST_BALANCE
FROM LGCUSTOMER
ORDER BY CUST_CODE
```

```
SELECT CUST_CODE, SUM(INV_TOTAL) AS TOTAL_INV
FROM LGINVOICE
GROUP BY CUST_CODE
ORDER BY CUST_CODE
```

```
--UPDATE INV_TOTAL
DECLARE @CUST_CODE INT
DECLARE @TOTAL DECIMAL(8,2)
DECLARE UPDATE_BAL CURSOR FOR
    SELECT CUST_CODE, SUM(INV_TOTAL) AS TOTAL
    FROM LGINVOICE
    GROUP BY CUST_CODE

OPEN UPDATE_BAL
FETCH NEXT FROM UPDATE_BAL INTO @CUST_CODE,@TOTAL
WHILE (@@FETCH_STATUS=0)
BEGIN
    UPDATE LGCUSTOMER
    SET CUST_BALANCE=@TOTAL
    WHERE CUST_CODE=@CUST_CODE
    FETCH NEXT FROM UPDATE_BAL INTO @CUST_CODE,@TOTAL
END;
CLOSE UPDATE_BAL
DEALLOCATE UPDATE_BAL
```

--Update CUST_BALANCE

```
DECLARE @INV_NUM INT
DECLARE @INVOICE_TOTAL DECIMAL(12,2)
DECLARE UPDATE_TOTAL CURSOR FOR
    SELECT INV_NUM, SUM(INV_TOTAL) AS INVOICE_TOTAL
    FROM LGINVOICE
    GROUP BY INV_NUM

OPEN UPDATE_TOTAL
FETCH NEXT FROM UPDATE_TOTAL INTO @INV_NUM, @INVOICE_TOTAL
WHILE (@@FETCH_STATUS=0)
BEGIN
    UPDATE LGINVOICE
    SET INV_TOTAL=@INVOICE_TOTAL
    WHERE INV_NUM=@INV_NUM
    FETCH NEXT FROM UPDATE_TOTAL INTO @INV_NUM,@INVOICE_TOTAL
END;
CLOSE UPDATE_TOTAL
DEALLOCATE UPDATE_TOTAL
```

PART 2

```

USE [CIS31009]
GO
/***** Object: Trigger [dbo].[A9]    Script Date: 4/8/2015 10:09:19 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO

ALTER TRIGGER [dbo].[A9]
    ON [dbo].[LGLINE]
    AFTER INSERT,DELETE,UPDATE
AS
BEGIN
    SELECT *
    FROM INSERTED

    SELECT *
    FROM DELETED

    DECLARE @INV_NUM INT
    DECLARE @CUST_CODE INT
    DECLARE @INV_TOTAL DECIMAL(12,2)

    DECLARE inst CURSOR FOR
    SELECT I.INV_NUM, C.CUST_CODE, SUM(LINE_QTY*LINE_PRICE) AS INV_TOTAL
    FROM LGLINE I
        INNER JOIN INVOICE N ON I.INV_NUM=N.INV_NUM
        INNER JOIN CUSTOMER C ON C.CUST_CODE=N.CUST_CODE
    GROUP BY I.INV_NUM,C.CUST_CODE
    ORDER BY I.INV_NUM

    DECLARE del CURSOR FOR
    SELECT I.INV_NUM, C.CUST_CODE, SUM(LINE_QTY*LINE_PRICE) AS INV_TOTAL
    FROM LGLINE I
        INNER JOIN INVOICE N ON I.INV_NUM=N.INV_NUM
        INNER JOIN CUSTOMER C ON C.CUST_CODE=N.CUST_CODE
    GROUP BY I.INV_NUM,C.CUST_CODE
    ORDER BY I.INV_NUM

    -- INSERT CASE FOR LGCUSTOMER

    IF(EXISTS (SELECT * FROM INSERTED))
    BEGIN
        OPEN inst
        FETCH NEXT FROM inst INTO @INV_NUM,@CUST_CODE,@INV_TOTAL
        WHILE(@@FETCH_STATUS=0)
        BEGIN
            UPDATE LGINVOICE
            SET INV_TOTAL=@INV_TOTAL
            WHERE INV_NUM=@INV_NUM
            BEGIN
                UPDATE LGCUSTOMER
                SET CUST_BALANCE=CUST_BALANCE+@INV_TOTAL
                WHERE CUST_CODE=@CUST_CODE
            END
            FETCH NEXT FROM inst INTO @INV_NUM, @CUST_CODE, @INV_TOTAL
        END
    END

```

```

        END
    CLOSE inst
    DEALLOCATE inst
END

--DELETED CASE FOR LGCUSTOMER

IF(EXISTS (SELECT * FROM DELETED))
BEGIN
    OPEN Del
    FETCH NEXT FROM Del INTO @INV_NUM,@CUST_CODE,@INV_TOTAL
    WHILE(@@FETCH_STATUS=0)
        BEGIN
            UPDATE LGINVOICE
            SET INV_TOTAL=@INV_TOTAL
            WHERE INV_NUM=@INV_NUM
            BEGIN
                UPDATE LGCUSTOMER
                SET CUST_BALANCE=CUST_BALANCE+@INV_TOTAL
                WHERE CUST_CODE=@CUST_CODE
            END
            FETCH NEXT FROM Del INTO @INV_NUM, @CUST_CODE, @INV_TOTAL
        END
    END
    CLOSE Del
    DEALLOCATE Del
END
END

```

PART 3

```

--TEST CODE TO UPDATE CUST_BALANCE

SELECT C.CUST_CODE,C.CUST_BALANCE, SUM(I.INV_TOTAL)
FROM LGCUSTOMER C INNER JOIN LGINVOICE I
    ON C.CUST_CODE=I.CUST_CODE
GROUP BY C.CUST_CODE,C.CUST_BALANCE;

--TEST CODE TO UPDATE INV_TOTAL

SELECT I.INV_NUM, SUM(LINE_QTY * LINE_PRICE)
FROM LGLINE L
INNER JOIN LGINVOICE I ON I.INV_NUM=L.INV_NUM
GROUP BY I.INV_NUM

--TEST CODE TO CHECK CUST_BALANCE- INSERT TRIGGER
SELECT *
FROM LGCUSTOMER
WHERE CUST_CODE=88;

SELECT * INTO TEMP_LINE
FROM LGLINE
WHERE INV_NUM=104;

INSERT INTO LGLINE
SELECT * FROM LINE WHERE INV_NUM=104;

DELETE
FROM LGLINE

```

```
WHERE INV_NUM=104;
```

```
SELECT * FROM LGLINE
```

```
SELECT * FROM LGINVOICE
```