**EXERCISE 2**

Given the following schema:

***stock (item, level)***: How much of each item at present.

***min-level (item, level)***: What is the minimum desired level of each item.

***orders (item, amount)***: Orders to be placed.

Create a **trigger** that would insert a record into the orders table whenever a stock amount would go below its minimum level.

**Delimiter** $$

**Create Trigger** BeforeInsertOnStock

**Before Insert** On Stock

**For Each Row**

**Begin**

**Declare** id\_minLevel INTEGER;

**Declare** id\_item Char(14);

**Declare** id\_level INTEGER;

**SELECT** level into @id\_minLevel

**FROM** Min\_level

**WHERE** Min\_Level.item = new.item;

**SELECT** item into @id\_item

**FROM** Min\_level

**WHERE** Min\_level.item = new.item;

**SELECT** level into @id\_level

**FROM** Min\_level

**WHERE** Min\_level.item = new.item;

**If** new.level < @id\_minLevel Then

Insert into Orders values(@id\_item, @id\_level);

**End if;**

**End$$;**

**Delimiter ;**

**Set SQL\_SAFE\_UPDATES = 0;**

**/\*Test - This insert is under the minimum level for item 1234\*/**

**Insert into Stock Values ('4455',5);**

Drop Trigger BeforeInsertOnStock;

Select \* From Orders;

Select \* FROM Stock;

Select \* FROM Min\_level;

**Create Database** kennysShop\_db;

**Use** kennysShop\_db;

**Drop** **Table if Exists** Stock;

**Drop** **Table if Exists** Min\_level;

**Drop** **Table if Exists** Orders;

**CREATE TABLE** Stock (

**ITEM** CHAR(14) NOT NULL,

**LEVEL** INTEGER,

**CONSTRAINT** Stock\_PRIMARY\_KEY PRIMARY KEY (ITEM));

**Insert** into Stock Values ('1234',5);

**Insert** into Stock Values ('8874',20);

**CREATE TABLE** Min\_level (

**ITEM**  CHAR(14) NOT NULL,

**LEVEL**  INTEGER,

**CONSTRAINT** Min\_level\_PRIMARY\_KEY PRIMARY KEY (ITEM));

**Insert** into Min\_level Values ('1234',20);

**Insert** into Min\_level Values ('9999',20);

**Insert** into Min\_level Values ('8889',20);

**Insert** into Min\_level Values ('4455',20);

Drop Table Min\_level;

**CREATE TABLE** Orders (

**ITEM** CHAR(14) NOT NULL,

**LEVEL**  INTEGER,

**CONSTRAINT** Orders\_PRIMARY\_KEY PRIMARY KEY (ITEM));

**Insert** into Orders Values ('1234',5);

**Show Tables;**