1. Create view contain product info with brand name and category name?

CREATE VIEW [dbo].[View\_Product\_Info]

AS

SELECT production.products.product\_name, production.brands.brand\_name, production.categories.category\_name, production.products.model\_year, production.products.list\_price

FROM production.products INNER JOIN

production.categories ON production.products.category\_id = production.categories.category\_id INNER JOIN

production.brands ON production.products.brand\_id = production.brands.brand\_id

;

1. Create field in orders table called total\_quantity int default 0 and in the future it will contain total number of product in order\_item ( here we assume all product have the same unit) can use script all right click on table properties and add column.

Alter table sales.orders add total\_quantity int default 0;

3-Create stored procedure so that total\_quantity filled with correct value

-- the definition of the procedure.

CREATE PROCEDURE sales.calcTotalQuantity

as

BEGIN

update sales.orders

set total\_quantity = isnull((select sum(quantity) from sales.order\_items where sales.order\_items.order\_id=sales.orders.order\_id),0)

END

Exec sales.calcTotalQuantity;

4-Add Trigger in order\_items so that with every insertion or deletion or updating in tables affected the total quatity in master record. and no need to run stored procedure again.

-- the definition of the insert trigger.

CREATE TRIGGER sales.calcTotalQuantity\_insert

ON sales.order\_items

AFTER INSERT

AS

BEGIN

-- Insert statements for trigger here

update sales.orders

set total\_quantity = total\_quantity + inserted.quantity

from sales.orders

inner join inserted

on sales.orders.order\_id= inserted.order\_id

END

-- the definition of the deleted trigger.

CREATE TRIGGER sales.calcTotalQuantity\_delete

ON sales.order\_items

AFTER delete

AS

BEGIN

-- Insert statements for trigger here

update sales.orders

set total\_quantity = total\_quantity - deleted.quantity

from sales.orders

inner join deleted

on sales.orders.order\_id= deleted.order\_id

END

-- the definition of the update trigger.

CREATE TRIGGER sales.calcTotalQuantity\_update

ON sales.order\_items

AFTER update

AS

BEGIN

-- Insert statements for trigger here

update sales.orders

set total\_quantity = total\_quantity - deleted.quantity

from sales.orders

inner join deleted

on sales.orders.order\_id= deleted.order\_id

update sales.orders

set total\_quantity = total\_quantity + inserted.quantity

from sales.orders

inner join inserted

on sales.orders.order\_id= inserted.order\_id

END