/*
PROG 140 Module 7 Assignment #8
POINTS 50 DUE DATE : Consult module

Angelique Refahiyat

06/02/2018

Develop a SQL statement for each task listed. This exercise uses the Northwind database.

Please type your SQL statement under each task below. Ensure your statement works by testing it prior to turning it in
When writing answers for your select statements please keep in mind that there is more than one way to write a query.
Please do your best to write a query that not only returns the information the questions asks for but to the best of your ability,
in the best way possible to suit their needs. For example, consider the best way to sort, to name columns, etc.
These are things you must think about on the job!

Turn In:

For this exercise you will submit one WORD documents (instead of a .sql file) in which you have copied and pasted
your entire work from your .sql file including all assignment questions and your SQL queries.
The document should contain your name at the top, assignment title, the date and any difficulties encountered.

Submit your file to the instructor using the Canvas Assignment tool.
*/

-- Tasks:

/*
1.
10 pts
Write a simple trigger that only prints a message stating that a row in the customers table has been updated and that fires only
upon the execution of an update statement on the customers table.

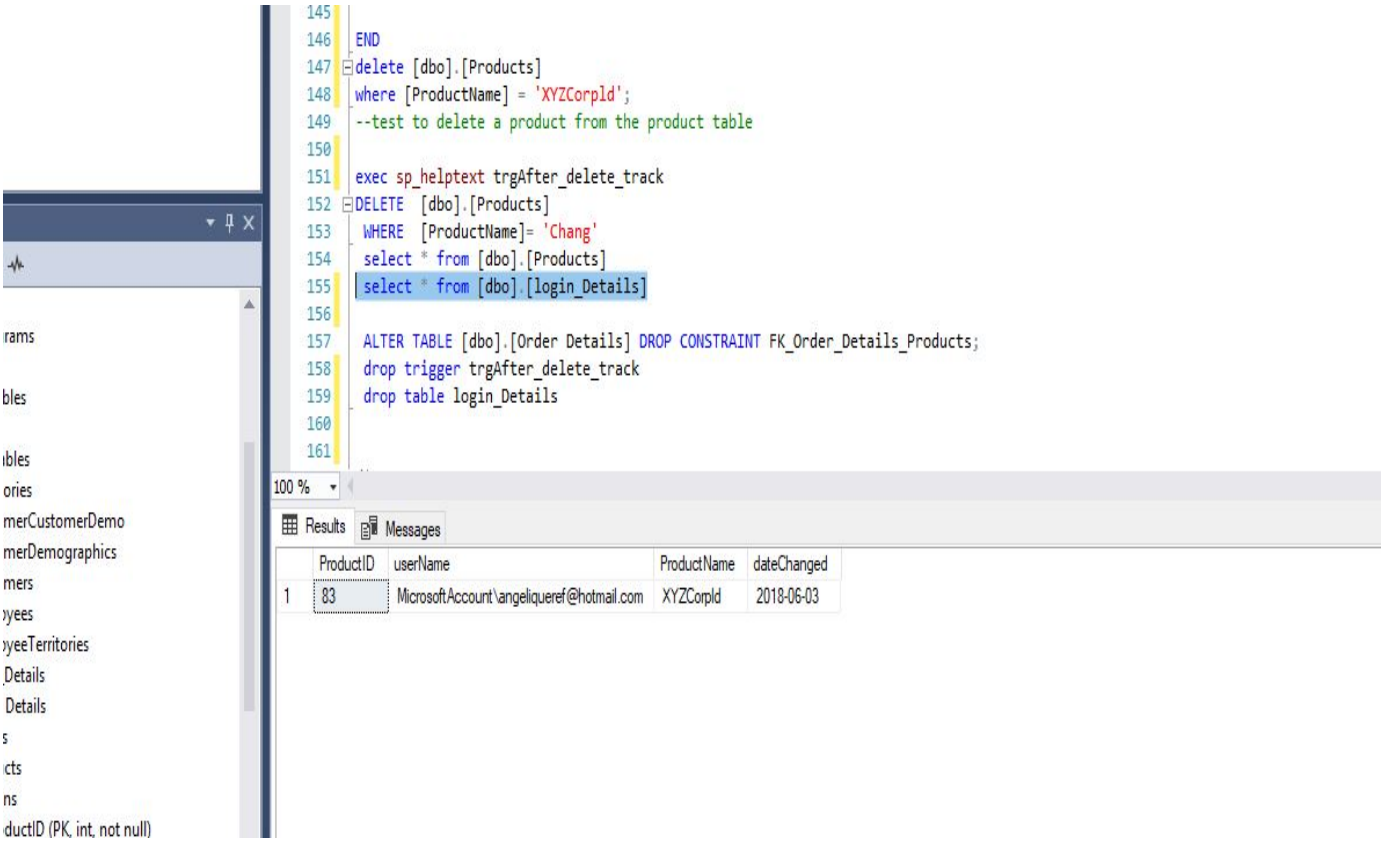
Include a statement that will fire your trigger and also a statement to drop your trigger.

```
*/
-- write your SQL statements here:

use Northwind
go
CREATE TRIGGER UpdateAlert on [dbo].[Customers]
FOR UPDATE
AS
DECLARE @AlertNotice VARCHAR(50)

IF UPDATE([CompanyName])
BEGIN
SET @AlertNotice = 'Updated Company Name'
END
IF UPDATE([ContactTitle])
BEGIN
SET @AlertNotice = 'Updated Contact title'
END
--test
--SELECT * from[dbo].[Customers]
--where [CustomerID] = 'VICTE'
UPDATE [dbo].[Customers]
SET [CompanyName] ='stockinggg victualities'
WHERE [CustomerID] = 'VICTE'
SELECT [CustomerID],[CompanyName],[ContactTitle], @AlertNotice as notification FROM INSERTED
DROP TRIGGER UpdateAlert
GO
/*
2.
10 pts
Create a trigger that will run instead of the Update statement on the Suppliers table.  It will
fire when an Update statement is executed against the Suppliers table and will an error message saying:
"Updating information in this table is not allowed"

Include a statement that will fire your trigger and also a statement to drop your trigger.
(Hints:  There is such a thing as an "instead of trigger". See the demo file for an example! You can use
RaisError for the error message.)
```

```
*/
-- write your SQL statements here:
USE Northwind
GO
CREATE TRIGGER UpdateProhibition on [dbo].[Suppliers]
INSTEAD OF UPDATE, DELETE
AS
BEGIN
RAISERROR ( 'Updating information in this table is not allowed',18,0)
END

UPDATE [dbo].[Suppliers]
SET [CompanyName]='lyngbisyld'
WHERE [SupplierID]= 21
SELECT [SupplierID],[CompanyName],[ContactTitle]
FROM INSERTED


/*
3.
15 pts
Northwind management is concerned that someone is updating and deleting products without following proper
procedures. You are asked to provide a log of all future UPDATES and DELETES performed on the products
table. Unfortunately
the products table does not store this information. You decide to create a log table and a trigger that will load
this log table with the productid,
the date and the user of the deleted or updated product.

*******************************************
Note: Here's how to find the user!!  There is an example in the demo file in the TRIGGER trgCheckSalaryCap
however it is in the part I did not present on the video since
I had to end the video and thought that 4 videos would be too much for everyone.  Its actually pretty easy.
There is a user function that retrieves the current user.
It's called "user". The user can be obtained like this:

Declare @User varchar(20)
Select @User = System_User

*******************************************
```

```
Include a statement that will fire your trigger and also a statement to drop your trigger.

*/
-- write your SQL statements here:
DECLARE @sys_usr varchar(100);
SET @sys_usr = SYSTEM_USER;
SELECT 'The current system user is: '+ @sys_usr;
GO
ALTER TABLE [dbo].[Order Details] DROP CONSTRAINT FK_Order_Details_Products
GO
CREATE TABLE login_Details

(
   [ProductID] int NOT NULL,
         [userName] varchar(100)    NOT NULL,
         [ProductName] [nvarchar](40) NOT NULL,
         dateChanged date

         )
         --Alter TABLE login_Details ADD FOREIGN KEY ([ProductID]) REFERENCES
[dbo].[Products]([ProductID])
         GO
         insert into  [dbo].[Products]([ProductName])
   values ('XYZCorpId');

GO
CREATE TRIGGER trgAfter_delete_track
ON [dbo].[Products]
After DELETE,Update
AS

--DECLARE @sys_usr char(30)
--SET @sys_usr = SYSTEM_USER
--DECLARE @OldProduct nvarchar(40)
--DECLARE @User  char(30)
--DECLARE @prID int
BEGIN
set nocount on
```

```
    INSERT INTO [dbo].[login_Details]
SELECT ProductID,SYSTEM_USER,[ProductName],CURRENT_TIMESTAMP  from DELETED d
    set nocount off
    END
    DELETE [dbo].[Products]
    WHERE [ProductName] = 'XYZCorpId';
    --test to delete a product from the product table

    EXEC sp_helptext trgAfter_delete_track
    DELETE  [dbo].[Products]
    WHERE  [ProductName]= 'Chang'
    SELECT * FROM [dbo].[Products]
    SELECT * FROM [dbo].[login_Details]


    DROP TRIGGER trgAfter_delete_track
    DROP TABLE login_Details
```



```
/*
4.
15 pts
In our demo file Cursors.sql there is a stored procedure called "Rebuild_All_Indexes" near the end of that file.
Use
this stored procedure as a model to create a stored procedure called "uspListAllUserTables" that will print
the names of all tables in the sys.Objects table that are user tables (ie., type = 'U').  (Hint: you will not need to
return a table object - just using the print statement within the sproc will print out the tables)

Include a statement to execute your stored procedure and be sure to test it to ensure it works.
*/
-- write your SQL statements here:
Go
Create PROCEDURE uspPrintTables
AS
 DECLARE Alltables cursor
 FOR
SELECT NAME FROM sys.Objects WHERE type = 'U'
OPEN Alltables
DECLARE @table_name SYSNAME
```

```
FETCH next FROM Alltables INTO @table_name
WHILE @@fetch_status = 0
BEGIN
   PRINT @table_name
   FETCH next FROM Alltables INTO @table_name
END
 CLOSE Alltables
 DEALLOCATE Alltables
   EXEC uspPrintTables

   DROP PROCEDURE uspPrintTables
```