Exercise Four

4.1 Create a view called Products_vw, include the following tables and columns …
Products_Group – Pgr_Group_Name
Products – Pro_Name, Pro_Price
Products_Sales – Pss_Transaction_Date, Pss_Number_of_Units, Pss_Sales_Number

Add an additional column which represents Pss_Number_of_Units multiplied by Pro_Price
Appendix 8NF10 is a graphical representation of the relationship between the above tables.
Save the create script as c:\course\ex4_1.sql. Running the view should produce 82150 records.

4.2 Create an Instead of trigger for Product_vw which when an insert statement is issued inserts into Products_Sales the Sales data, the Pss_Sales_Number is obtained from the Prod_Sales_Seq sequence. In addition, remember to populate the audit columns.
Call the trigger pro_ii_trg. Save the create script as c:\course\ex4_2.sql.

Exercise Four

4.3 Test the Pro_ii_trg by issuing the following statement …

```
insert into products_vw
(group_name
 ,product_name
 ,sales_date
 ,units_sold)
values ('BUILDING', 'FINE SAND', to_date('01-FEB-2003','DD-MON-RRRR'),99);
```

Save as c:\course\ex4_3.sql

Select from the Products_Sales table to confirm that the insert occurred.

Exercise Four

4.4 Create an instead of trigger for Product_vw for update. Call the trigger Pro_iu_trg
Allow updates to transaction date, product number, number of units.
Save as c:\course\ex4_4.sql. Test the trigger works by issuing the following statements …

```
update products_vw
set product_name = 'GNOME'
where sales_number = <number from 4.3>

update products_vw
set units_sold = 888
where sales_number = <number from 4.3>

update products_vw
set pro_price = 888
where sales_number = <number from 4.3>
```

4.5 Create an instead of trigger for Product_vw for delete. Prevent any deletions and display a suitable error message. Call the trigger Pro_id_trg. Save the script as c:\course\ex4_5.sql.

Exercise Four

4.6 Create a temporary table called Test_Drop, create several columns of your own choosing. Create a System trigger which prevents a user from dropping the Test_Drop table and displays an appropriate error message.
Save the script as c:\course\4_6.sql