

```
%let path=/courses/d649d56dba27fe300/STA5067/SAS Data;  
libname orion "&path/orion";  
/*      1.a      */
```

```
proc sql;  
create view work.T_Shirts as  
select d.Product_ID,  
       d.Supplier_Name format = $20. ,  
       d.Product_Name,  
       Unit_Sales_Price as Price label "Retail Price"  
from orion.product_dim as d,  
     orion.price_list as l  
where d.Product_ID = l.Product_ID  
and   d.Product_Name contains 'T-Shirt'  
;  
quit;  
/*      1.b      */
```

```
proc sql;  
Title "T_Shirt Supplier,Name and Price";  
select *  
from work.T_Shirts  
order by 2,1  
;  
quit;  
title;  
/*      1.c      */
```

```
proc sql;  
title "T-Shirts price less than $20";  
select Product_ID,  
       Product_Name,  
       Price  
from work.T_Shirts as s  
where s.Price < 20  
order by 3  
;  
quit;  
title;
```

```
/*      2a      */
```

```
proc sql;  
create view work.Current_Catalog as  
select d.*,  
       Unit_Sales_Price * (Factor**(year(today())-year(Start_Date))) as Price  
       format = dollar10.2 label "Current Retail Price"  
from orion.product_dim as d,  
     orion.price_list as l  
where d.Product_ID = l.Product_ID  
;  
quit;
```

```
/*      2b      */
```

```
proc sql;
```

```
title "Roller Skate Sale Price";
select Supplier_Name,
        Product_Name,
        Price
from work.Current_Catalog
where Product_Name contains "Roller Skate"
order by 1,3
;
quit;
title;
/*          2c          */
.....
proc sql;
title "Sales Price Increase";
select c.Product_Name,
        Unit_Sales_price,
        c.Price,
        Price-Unit_Sales_price as Increase format =dollar10.2
from work.Current_Catalog as c,
     orion.price_list as l
where c.Product_Id = l.Product_ID
and   calculated Increase >5
order by 4 desc
;
quit;
title;
/*seems some wrong happened in date.
Maybe some wrong happened in Factor column */

/*          3a          */
.....
proc sql;
create table work.Employees as
select p.Employee_ID,
        Employee_Hire_Date as Hire_Date format mmddyy10.,
        Salary,
        Birth_Date format mmddyy10.,
        Employee_Gender as Gender,
        Country,
        City
from orion.employee_payroll as p,
     orion.employee_addresses as a
where p.Employee_ID = a.Employee_ID
and Employee_Term_Date is missing
order by 2,3 desc
;
quit;
/*          3b          */
.....
proc sql;
select *
from work.Employees
where Salary >75000
and Gender = "F"
```

```
;
quit;
/*      4      */
proc sql undo_policy= none ;
create table Direct_Compensation
      (Employee_ID num ,
      Level char(25),
      Salary num ,
      Name char(31),
      Commission num format = comma10.2,
      Direct_Compensation num format = comma10.1)
;

insert into work.Direct_Compensation
(Employee_ID,Level,Salary,Name,Commission,Direct_Compensation)
select s.Employee_ID,
      Job_Title as Level,
      s.Salary,
      substr(First_Name,1,1)||"."|| Last_Name as Name,
      sum(Total_Retail_Price*0.15) as Commission format = comma10.2,
      calculated Commission + Salary as Direct_Compensation format = comma10.1
from orion.sales as s,
      orion.order_fact as f
where s.Employee_ID = f.Employee_ID
and year(Order_Date) = 2007
and Job_Title contains "I"
group by s.Employee_ID
;
select * from work.Direct_Compensation;
quit;
```

