```
%let path=/courses/d649d56dba27fe300/STA5067/SAS Data;
libname orion "&path/orion";
/*        1.a         */
proc sql;
title "2007 Sales Statistics";/*not only for Force Supplier,I changed title*/
title2 "For employees with 200.00 or more in sales";
select Country,
       First_Name,
       Last_Name,
       Value_Sold,
       Orders,
       Value_Sold / Orders as Avg_Order format = comma10.2
from orion.sales as s,
     (select Employee_ID,
     sum(Total_Retail_Price ) as Value_Sold format = comma10.2,
     count(Quantity) as Orders
            from orion.Order_Fact as f
            inner join
            orion.product_dim as d
            on
            f.Product_ID = d.Product_ID
            and year(Order_Date) = 2007
            and Employee_ID ne 99999999
            group by Employee_ID
            ) as of
     where s.Employee_ID = of.Employee_ID
      and Value_Sold >= 200
      order by Country ,4 desc,5 desc
      ;
quit;
title;

/*         1.b        */
proc sql;
title "2007 Sales Summary by Country";
select Country,
       max(Value_Sold) as  label "Max Value Sold" format = comma10.2,
       max(Orders) as  label "Max Orders" format = comma10.2,
       max(Avg_Order) as  label "Max Average" format = comma10.2,
       min(Avg_Order) as  label "Min Average" format = comma10.2
from (select Country,
       First_Name,
       Last_Name,
       Value_Sold,
       Orders,
       Value_Sold / Orders as Avg_Order format = comma10.2
from orion.sales as s,
     (select Employee_ID,
     sum(Total_Retail_Price ) as Value_Sold ,
     count(Quantity) as Orders
            from orion.Order_Fact as f
            inner join
            orion.product_dim as d
            on
            f.Product_ID = d.Product_ID
            and year(Order_Date) = 2007
            and Employee_ID ne 99999999
            group by Employee_ID
            ) as of
```

```
      where s.Employee_ID = of.Employee_ID
       and Value_Sold >= 200)
group by Country
;
quit;
title;

/*         2.a          */
proc sql;
title "Total Sales for Each Department";
select Department,
       sum(Salary) as Dept_Salary_Total
from orion.employee_payroll as p,
     orion.employee_organization as o
where p.Employee_ID = o.EMployee_ID
group by Department
;
quit;
title;
/*         2.b          */
proc sql;
title "Employee in Each Department";
select o.Employee_ID,
       Employee_Name,
       Department
from orion.employee_organization as o,
     orion.employee_addresses as a
where o.Employee_ID = a.Employee_ID
order by 2
;
quit;
title;
/*         2.c          */
proc sql;
title "Employee Salaries as a Percent of Department Total";
select b.Department,
       Employee_Name,
       Salary format = comma10.2,
       Salary/Dept_Salary_Total   as Percent format = percent12.1
from orion.employee_payroll as p,
      (select Department,
        sum(Salary) as Dept_Salary_Total
        from orion.employee_payroll as p,
        orion.employee_organization as o
        where p.Employee_ID = o.EMployee_ID
        group by Department)as a,
     (select o.Employee_ID,
       Employee_Name,
       Department
       from orion.employee_organization as o,
       orion.employee_addresses as a
       where o.Employee_ID = a.Employee_ID)as b
where p.Employee_ID = b.Employee_ID
  and a.Department = b.Department
order by 1,4 desc
;
quit;
title;
/*         3          */
proc sql;
```

```
title "2007 Total Sales Figures";
select distinct
catx(" ", scan(a1.Employee_name, 2, ","), scan(a1.Employee_name, 1, ",")) as  Manager,
catx(" ", scan(a2.Employee_name, 2, ","), scan(a2.Employee_name, 1, ",")) as  Employee,
       sum(Total_Retail_Price) as Total_Sales format = comma10.2
from orion.employee_organization as o,
     orion.employee_addresses as a1,
     orion.employee_addresses as a2,
     orion.order_fact as f
where o.Employee_ID = a2.Employee_ID
and   a2.Employee_ID = f.Employee_ID
and   a1.Employee_ID = o.Manager_ID
and year(Order_Date) = 2007
and o.Employee_ID ne 99999999
group by a2.Employee_Name
order by a1.country,1 desc,3 desc
;
quit;
title;
```