Ting Hu

%let path=/courses/d649d56dba27fe300/STA5067/SAS Data;  
libname train "&path/train";  
libname orion "&path/orion";  
  
/\* 1 \*/  
proc sql;  
title1 "Employees With More Than 30 Years of service";  
title2 "As of December 31,2007";  
select Employee\_Name,  
 int(('31DEC2007'd- Employee\_Hire\_Date)/365.25) as Years\_of\_Service  
from orion.Employee\_Addresses as a  
inner join  
 orion.Employee\_Payroll as p  
on a.Employee\_ID = p.Employee\_ID  
where calculated Years\_of\_Service >30  
order by 1  
;  
quit;  
title1;  
title2;  
  
/\* 2 \*/  
proc sql;  
select Employee\_Name as Name,  
 City,  
 Job\_Title  
from orion.Employee\_Addresses as a   
 left join orion.Sales as s  
on a.Employee\_ID = s.Employee\_ID  
order by 2 ,3, 1  
;  
quit;  
/\* 3 \*/  
proc sql;  
title1 "US and Austrialian Internat Customers";  
title2 "Purchasing Foreign Manufactured Products";  
select c.Customer\_Name as Name,  
 count(o.Quantity) as Purchases  
from orion.customer as c  
 inner join  
 orion.order\_fact as o  
 on o.Customer\_ID = c.Customer\_ID   
 inner join  
 orion.product\_dim as p  
 on p.Product\_ID = o.Product\_ID   
   
where o.Employee\_ID = 99999999   
 and p.Supplier\_Country ~= c.Country  
 and c.Country in("US","AU")  
group by Name  
order by 2 desc,1  
;  
quit;  
title1;  
title2;

/\* 5 \*/  
proc sql;  
title 'US Employees';  
select Employee\_Name as Name,  
 City,  
 int(('31DEC2007'd - Birth\_Date)/365.25)as Age,  
 Employee\_Gender  
from orion.employee\_payroll as p  
inner join   
 orion.employee\_addresses as a  
on p.Employee\_ID = a.Employee\_ID  
where a.Country = "US"  
order by 3,2,1  
;  
quit;  
title;

/\* 6 \*/  
proc sql;  
title 'New Jersey Employees';  
select substr(s.FirstName,1,1)||"."||s.LastName as Name,  
 Jobcode,  
 Gender  
From train.staffmaster as s  
inner join  
 train.payrollmaster as p  
on s.EmpID = p.EmpId  
where s.State = "NJ"  
order 3,2  
  
;  
quit;  
title;

/\* 7 \*/  
data t1 t2;  
 call streaminit(54321);  
 do id=1,7,4,2,6,11,9;  
 chol=int(rand("Normal",240,40));  
 sbp=int(rand("Normal",120,20));  
 output t1;  
 end;  
 do id1=2,1,5,7,3,9;  
 chol=int(rand("Normal",240,40));  
 sbp=int(rand("Normal",120,20));  
 output t2;  
 end;  
run;  
title "t1";  
proc print data=t1 noobs;run;  
title "t2";  
proc print data=t2 noobs;run;  
title;  
  
proc sql;  
select t1.id,coalesce(t1.chol) as chol,  
coalesce(t2.sbp) as sbp  
from t1 inner join t2  
on t1.id = t2.id1  
order by 1  
;  
quit;