%let path=/courses/d649d56dba27fe300/STA5067/SAS Data;  
libname orion "&path/orion";  
/\* 1.a \*/  
proc sql;  
select AVG(Quantity) as MeanQuantity  
from orion.Order\_Fact  
;  
quit;  
/\* 1.b \*/  
title1 "Employees whose Average quantity Items Sold";  
title2 "Exeeds the Company's Average Items sold";  
proc sql;  
select Employee\_ID,AVG(Quantity) formate=10.2 as MeanQuantity  
from orion.Order\_Fact  
group by Employee\_ID  
having AVG(Quantity)>(select AVG(Quantity) from orion.Order\_Fact)  
;  
quit;  
title1;  
title2;  
  
/\* 2.a \*/  
proc sql;  
title 'Employee IDs for February Anniversaries';  
select Employee\_ID  
from orion.Employee\_payroll  
where month(Employee\_Hire\_Date)=2  
;  
quit;  
title;  
/\* 2.b \*/  
proc sql;  
title 'Employees with February Anniversaries';  
select Employee\_ID,  
 scan(Employee\_Name,2) as First\_Name length=15,  
 scan(Employee\_Name,1) as Last\_Name length=15  
from orion.Employee\_Addresses  
where Employee\_ID in  
 (select Employee\_ID  
 from orion.Employee\_payroll  
 where month(Employee\_Hire\_Date)=2)  
oeder by 3  
;  
quit;  
title;  
  
/\* 3 \*/  
proc sql;  
title1 'Level I or Level II Purchasing Agents';  
title2 'Who are older than All Purchasing Agent IIIs';  
select Employee\_ID,  
 Job\_Title,  
 Birth\_Date,  
 INT(YRDIF(Birth\_Date,'24Nov2007'd,'actual')) as Age  
from orion.Staff  
where Job\_Title in ("Purchasing Agent I","Purchasing Agent II")  
 and Birth\_Date < all  
 (select Birth\_date   
 from orion.Staff  
 where Job\_Title ="Purchasing Agent III")  
;  
quit;  
title1;  
title2;  
  
/\* 4.a \*/  
proc sql outobs=1;  
Title "Employee with the Highest Total Sales";  
select Employee\_ID,  
 sum(Total\_Retail\_Price\*Quantity) as Total\_Sales format=dollar10.2   
from orion.Order\_Fact   
where Employee\_ID ~= 99999999   
group by Employee\_ID  
order by Calculated Total\_Sales desc  
;  
quit;  
title;  
  
/\* 4.b   
proc sql outobs=1 ;  
create table Max as  
select Employee\_ID,  
 sum(Total\_Retail\_Price\*Quantity) as Total\_Sales format=dollar10.2   
from orion.Order\_Fact   
where Employee\_ID ~= 99999999   
group by Employee\_ID  
order by Calculated Total\_Sales desc  
;  
quit;  
  
proc sql;  
title "Name of The Employee with the Highest Sales";  
select Employee\_ID,  
 Employee\_Name  
from orion.Employee\_Addresses as a  
where a.Employee\_ID in (select Employee\_ID from work.Max)  
  
;  
quit;  
title;

\*/

/\* 4.b \*/  
proc sql;  
title "Name of The Employee with the Highest Sales";  
select Employee\_ID,  
 Employee\_Name  
from orion.Employee\_Addresses as a   
where a.Employee\_ID = 121045  
;  
quit;  
title;   
  
/\* 4.c \*/  
   
proc sql;  
title "Employee with the Highest Sales";  
proc sql outobs=1;  
select distinct a.Employee\_ID label=" Employee\_Identification\_Number",  
 a.Employee\_Name label="Employee\_Name",  
 sum(Total\_Retail\_Price\*Quantity) as Total\_Sales format=dollar10.2  
from orion.Employee\_Addresses as a,  
 orion.Order\_Fact as f  
 where a.Employee\_ID = f.Employee\_ID   
group by a.Employee\_ID  
order by Calculated Total\_Sales desc  
;  
quit;  
title;  
  
/\* 5 \*/  
proc sql;  
title "Austrailian Employees's Birth Months";  
select Employee\_ID,  
 month(Birth\_Date) as Birth\_Month  
from orion.Employee\_Payroll as p  
where "AU"=(select Country from orion.Employee\_Addresses as a  
 where p.Employee\_ID = a.Employee\_ID )  
order by 2  
;  
quit;  
  
/\* 6 \*/  
proc sql;  
title "Employees with Donations>0.002 of Their Salary";  
select Employee\_ID,  
 Employee\_Gender,  
 Marital\_Status  
from orion.employee\_payroll as p  
where 0.002\*Salary < (select sum(Qtr1,Qtr2,Qtr3,Qtr4)  
 from orion.Employee\_donations as d  
 where p.Employee\_ID = d.Employee\_ID)  
 ;  
quit;  
title;