```
*STEP 0 ;
*******
/*1. Program Name:Vivek235 HW06 Program.sas
                                                             * /
/* Program Location: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment06\Assignment\Vivek235 HW06 Program.sas
/* Date Created: 2/18/17
                                                             * /
/* Author: Vivek Kumar Gupta
                                                        * /
/* Purpose: This assignment will primarily utilize, but is not limited to, techniques covered in lectures 5
through 9 but does not require the use of any of the SOL set operators.
You will practice using joins, subqueries, inline views and summary functions.
******
*STEP 0 - Setup of libraries and fielrefs. Librefs to Orion and homework data must be protected with
readonly access. Use a filename
statement to define the path to the PDF output file.;
*1.Create the necessary library references for data sources and destination and file references for output.
Turn off page numbering;
libname ncaa 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment05\SourceData' access=readonly;
libname givers 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment06\SourceData' access=readonly;
libname orion 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M University\657\SOL
Files' access=readonly;
filename pdfdev 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment06\Vivek235 HW06 Output.pdf';
option nonumber;
/*Open destination device*/
ods pdf file=pdfdev ;
/*STEP 1. Create a report entitled "2003 NCAA Team Scoring Analysis", from the scholarship03 dataset using
inline view and as instructed*/
proc sql ;
title "2003 NCAA Team Scoring Analysis";
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select team
           , count(*) as Players
            , avg(ppg) as avg ppg label 'Average PPG' format 5.1
            , avg(ppg)/sc2.avg PPG all as overall avg label 'Team vs. Overall' format percent8.1
            , case
                  when avg(ppg) > avg PPG all then 'Above Avg.'
                  else 'Avg. or Below'
                  end as ppg level label 'PPG Level'
from ncaa.scholarship03 sc1,
(select avg(ppg) as avg PPG all label "Overall Average PPG"
            from ncaa.scholarship03
            where Seed not in (15, 16)) as sc2
where scl.Seed not in (15, 16)
group by team, avg PPG all
having players >= 5
order by avg ppg desc;
quit;
/*STEP 3.Create a list of records from givers with duplicate names as shown in the example */
proc sql;
title"Duplicate Givers";
select
            employee id,
            employee name,
            atr1,
            atr2,
            qtr3,
            atr4,
            recipients
from givers.givers
where employee name in
      (select employee name
            from givers.givers
            group by employee name
            having count(*) >1)
quit;
/*STEP 4. Create a list of Active Employees who are not in the giver list (based on employee id). Names
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are found in orion.employee addresses. The employee term date can be read from the

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orion.employee payroll table. Use a subquery in the where clause to determine which IDs to
eliminate. */
proc sql;
title "Active Employees not on Giver List";
select payroll.employee id,
        address.employee name
from
     orion.employee payroll as payroll
      inner join
      orion.employee addresses as address
     on address.employee id = payroll.employee id and not payroll.employee term date
where payroll.employee id not in
(select employee id from givers.givers);
quit;
/*STEP 5. Use data in one or more of the tables above to create a list of people from the givers table who
are no longer active employees at Orion Star. Show the ID, Name, and Gender of terminated
employees.*/
proc sql;
title"Terminated Givers";
select payroll.employee id as ID ,
         address.employee name as Name,
        payroll.employee gender as Gender
from
     orion.employee payroll as payroll
     inner join orion.employee addresses as address
            on address.employee id = payroll.employee id and payroll.employee term date
where payroll.employee id in
(select employee id from givers.givers);
quit;
/*STEP 6. Create a report entitled "Orion's Customers Who Bought Products Other Than Shoes" using a
multiway join.*/
proc sql;
title"Orion's Customers Who Bought Products Other Than Shoes";
select distinct c.customer id,
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c.customer name,
         c.customer address,
         c.country,
        prd.product group,
        Month(c.birth date) label "Birth Month"
from
     orion.order fact as odf
      inner join orion.customer as c
            on c.customer id=odf.customer id
      inner join orion.product dim as prd
            on prd.product_id=odf.product_id
where prd.product group not like '%Shoes%'
order by c.country, 6 ,c.customer_name,prd.product_group
quit;
/*Housekeeping*/
title"";
option number;
/*Close destination*/
ods pdf close;
```