```
851  *STEP O ;
852  /*******************************************************************************************
852! *************************/
853  /*1. Program Name:Vivek235_HW07_Program.sas
853!                                      */
854  /* Program Location: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
854! University\657\Homework\Assignment07\Assignment\Vivek235_HW07_Program.sas      */
855  /* Date Created: 2/20/17
855!                              */
856  /* Author: Vivek Kumar Gupta
856!                              */
857  /* Purpose: This assignment will primarily utilize, but is not limited to, techniques covered in
857! lectures 5 through
858  10. You will practicing the use of the SQL set operators but may need to use joins, subqueries,
859  and/or inline views in conjunction with the set operators in each of your SQL procedures.
859!          */
860  /*******************************************************************************************
860! *************************/
861
862  *STEP O - Setup of libraries and filerefs. Librefs to homework data must be protected with
862! readonly access. Use a filename
863  statement to define the path to the PDF output file.;
864
865  *1.Create the necessary library references for data sources and destination and file references
865! for output. Turn off page numbering to match the output formatting;
866  libname ncaa  'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
866! University\657\Homework\Assignment04\SourceData' access=readonly;
NOTE: Libref NCAA was successfully assigned as follows:
      Engine:        V9
      Physical Name: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\Homework\Assignment04\SourceData
867  filename pdfdev 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
867! University\657\Homework\Assignment07\Vivek235_HW07_Output.pdf';
868  option nonumber;
869
870  /*Open destination device, set no bookmarks to be generated*/
871  ods pdf file=pdfdev bookmarkgen=no ;
NOTE: Writing ODS PDF output to DISK destination "PDFDEV", printer "PDF".
872
873  /*STEP 1. Create a report that combines the 2003 and 2004 statistics of only those players who
873! played in
```

```
874  both the 2003 and 2004 NCAA Championship tournaments. Use other specifications per the
874! instructions.
875  Set no date option to match output*/
876
877  title "Players in Both 2003 and 2004 NCAA Championship Tournaments";
878
879  option nodate;
880
881  proc sql ;
882  select  year, team , seed_, player, ppg  from
883  (select team ,player, seed_ , ppg, "2003" as Year
884  from ncaa.ncaam03
885  union
886  select team ,player, seed_ , ppg, "2004" as Year
887  from ncaa.ncaam04)as temp
888  where player  in
889  select player from
890  (
891  select nc03.player , nc03.team from
892         ncaa.ncaam03 as nc03,
893         ncaa.ncaam04 as nc04
894         where nc03.team=nc04.team
895         and nc03.player=nc04.player
896  ) as players
897  order by player , ppg desc
898  ;
899  quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.07 seconds
      cpu time            0.06 seconds


900
901  /*STEP 2. Create a report of teams who played in all three of the tournaments for which data were
902  provided.Use other specifications per the instructions. Use Intersect operator explicitly.
903  Set date option to match output*/
904
905  title"Comparison of Teams from 2003, 2004, and 2006 NCAA Championship Tournaments";
906  option date;
907
908
```

```
909  proc sql;
910
911  select team , seed_ , AvgPPG format 8.1, year
912  from
913  (select team , seed_ , avg(ppg) as AvgPPG label 'Average Player PPG', "2003" as Year
914  from ncaa.ncaam03
915  group by team , seed_
916  union
917  select team , seed_ , avg(ppg), "2004" as Year
918  from ncaa.ncaam04
919  group by team , seed_
920  union
921  select school as Team , seed , avg(ppg), "2006" as Year
922  from ncaa.ncaam06
923  group by team , seed ) as temp
924  where team in
925  (
926  select team from ncaa.ncaam03
927  intersect
928  select team from ncaa.ncaam04
929  intersect
930  select school as team from ncaa.ncaam06
931  )
932  order by team, year
933  ;
934  quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.06 seconds
      cpu time            0.04 seconds


935
936  /*Hosuse keeping. Resetting defaults*/
937  title;
938  option number date;
939
940  /**Close the device*/
941  ods pdf close;
NOTE: ODS PDF printed 3 pages to C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
      University\657\Homework\Assignment07\Vivek235_HW07_Output.pdf.
```