Data Class;

Input ClassID $ Year Age Height Weights;

Datalines;

A1234 2013 8 85 34

A2323 2013 9 81 36

B3423 2013 8 80 31

B5324 2013 9 70 35

C2342 2013 9 80 31

D3242 2013 9 85 30

A1234 2019 14 105 64

A2323 2019 15 101 66

B3423 2019 14 100 61

B5324 2019 15 90 55

C2342 2019 15 112 70

D3242 2019 14 112 70

;

\*xx;

Data Customer\_X;

Input ID Class $ Height $ Weight $ Football Basketball Hockey;

Datalines;

1 A Over5.7 Above50 1 0 1

2 A Over5.7 Above50 1 1 0

3 B Over5.7 Below50 1 1 .

4 B Under5.7 Below50 1 1 1

5 A Over5.7 Below50 1 1 1

6 A Over5.7 Above50 1 . 1

;

Proc Print NoObs;

Run;

Proc Means Data=Customer\_X;

Var Basketball;

Run;

Proc Means Data=customer\_x;

Class Height;

Var Basketball;

Run;

Proc Tabulate Data=Customer\_X;

Class Height;

Var Basketball;

Table Basketball\*Mean, Height All;

Run;

Data Dealership;

Input Date Date9. Day $ Car $ Units Team $ Avg\_Price;

Format Date Date9.;

Datalines;

20Jul2019 Sat Alpha 20 A1 39000

20Jul2019 Sat Alpha 20 A2 39100

20Jul2019 Sat Omega 25 A3 67000

20Jul2019 Sat Omega 22 A4 68000

21Jul2019 Sun Alpha 12 A1 39200

21Jul2019 Sun Alpha 14 A2 39300

21Jul2019 Sun Omega 16 A3 67500

21Jul2019 Sun Omega 11 A4 67300

22Jul2019 Mon Alpha 14 A1 39300

22Jul2019 Mon Alpha 11 A2 39500

22Jul2019 Mon Omega 10 A3 67200

22Jul2019 Mon Omega 9 A4 68400

23Jul2019 Tue Alpha 15 A1 39250

23Jul2019 Tue Alpha 13 A2 39350

23Jul2019 Tue Omega 9 A3 67600

23Jul2019 Tue Omega 10 A4 68100

24Jul2019 Wed Alpha 10 A1 39300

24Jul2019 Wed Alpha 7 A2 39500

24Jul2019 Wed Omega 15 A3 67100

24Jul2019 Wed Omega 12 A4 67650

25Jul2019 Thu Alpha 16 A1 39400

25Jul2019 Thu Alpha 18 A2 39300

25Jul2019 Thu Omega 17 A3 67800

25Jul2019 Thu Omega 13 A4 68300

26Jul2019 Fri Alpha 18 A1 39600

26Jul2019 Fri Alpha 19 A2 39800

26Jul2019 Fri Omega 20 A3 67800

26Jul2019 Fri Omega 22 A4 68200

27Jul2019 Sat Alpha 25 A1 39450

27Jul2019 Sat Alpha 23 A2 39850

27Jul2019 Sat Omega 29 A3 67600

27Jul2019 Sat Omega 20 A4 68100

28Jul2019 Sun Alpha 15 A1 39050

28Jul2019 Sun Alpha 18 A2 39550

28Jul2019 Sun Omega 19 A3 67900

28Jul2019 Sun Omega 16 A4 68300

;

\*Multiple tables in same code;

Proc Tabulate Data=Dealership;

Var Units;

Class Car Team Day;

Table Units;

Table Car Team Day;

Run;

\*Multiple level and customised statistics;

Proc Tabulate Data=Dealership;

Class Car;

Var Avg\_Price;

Table Avg\_Price\*Car\*(Sum Mean StdDev);

Run;

Proc Tabulate Data=Dealership;

Class Car;

Var Avg\_Price;

Table Avg\_Price\*Car\*Sum Avg\_Price\*Car\*Mean Avg\_Price\*Car\*StdDev;

Run;

\*Formatting output;

Proc Tabulate Data=Customer\_X;

Class Height;

Var Basketball;

Table Basketball="No. of Students Playing Basketball"\*Sum="Total No. of Students"\*Height;

Run;

Proc Tabulate Data=Customer\_X;

Class Height;

Var Basketball;

Table Basketball\*Sum\*Height;

Run;

\*Two dimensional tabulate;

Proc Tabulate Data=Class;

Class ClassID Year Age;

Var Height Weights;

Table All (ClassID Year)\*(N ColPctn) (Height Age\*Weights)\*(Sum Mean) (All);

Run;

\*New dataset;

Data Sales;

Input Country $7. Segment $11. Type $ Product $ Amt;

Datalines;

US Retail Software A 23

US Retail Software B 11

US Retail Hardware A 8

US Retail Hardware B 10

US Commercial Software A 45

US Commercial Software B 46

US Commercial Hardware A 4

US Commercial Hardware B 11

Germany Retail Software A 12

Germany Retail Software B 15

Germany Commercial Software A 55

Germany Commercial Software B 67

Germany Commercial Hardware A 23

Germany Commercial Hardware B 25

;

Proc Print NoObs;

Run;

Proc Tabulate Data=Sales;

Class Country Segment Type Product;

Var Amt;

Table Country\*Segment\*Product,Amt\*Type\*Mean;

Run;

\*xx;

ODS Excel File = '/folders/myfolders/Class.xlsx';

Proc Print Data=Class;

Run;

ODS Excel Close;

ODS PDF File = '/folders/myfolders/Class.pdf';

Proc Print;

Run;

ODS PDF Close;

\*xx;

Ods Listing;

Proc Template;

List Styles;

Run;

Quit;

\*ODS multiple sheets;

ODS Excel File = '/folders/myfolders/Datasets.xlsx' Options(Sheet\_Name="Class");

Proc Print Data=Class;

Run;

ODS Excel Options(Sheet\_Name="Customer\_X");;

Proc Print Data=Customer\_X;

Run;

ODS Excel Options(Sheet\_Name="Dealership");;

Proc Print Data=Dealership;

Run;

ODS Excel Close;

\*Alternate multiple file BY group;

ODS Excel File = '/folders/myfolders/Multiple\_Datasets.xlsx';

Proc Report Data=Class;

By Year;

Run;

ODS Excel Close;

\*ODS filters;

Ods Tagsets.Excelxp File='/folders/myfolders/Filters.xls' style=statistical

options(autofilter='all');

Proc Print Data=Class;

Run;

Ods Tagsets.Excelxp close;

\*xx;

ODS Excel File = '/folders/myfolders/Sales.xlsx' Options (Sheet\_Name="Sales by Country");

Proc Tabulate Data=Sales;

Class Country Segment Type Product / Style={Background=Red};

Var Amt / Style={Background=Green};

Table Country\*Segment\*Product,Amt\*Type\*Mean / Box= {Label='Sales by Country'

Style={Background=Yellow Font\_Size=4}};

Run;

ODS Excel Close;

ODS Excel File = '/folders/myfolders/Print\_Dealership.xlsx' Options (c='Yes'

Center\_Horizontal='Yes' Center\_Vertical='Yes' Draftquality='On');

Proc Print Data=Dealership;

Run;

ODS Excel Close;

\*Orientation and Options Selected for Print;

ODS Excel Close;

ODS Excel File = '/folders/myfolders/Print\_More\_Options.xlsx' Options (Print\_Area='B,2,G,11'

RowColHeadings='Yes' Row\_Heights='40' Orientation='Landscape');

Proc Print Data=Dealership;

Run;

ODS Excel Close;

\*Row break count;

ODS Excel File = '/folders/myfolders/Row\_Break.xlsx' Options (Rowbreaks\_Count='2');

Proc Print Data=Class;

Run;

ODS Excel Close;

\*Starting pos;

ODS Excel File = '/folders/myfolders/Starting\_Pos.xlsx' Options (Start\_at='2,3');

Proc Print Data=Class;

Run;

ODS Excel Close;

\*Chart output;

ODS Excel File = '/folders/myfolders/Chart\_Graph\_Same\_Page.xlsx' Options (Sheet\_interval='None');

Proc Means Data=class;

Var Height;

Run;

Proc SGPLOT Data = Class;

Histogram Height;

Title 'Height of children in class across years';

Run;

ODS Excel Close;

\*ODS Html;

Proc Format;

Value Format\_Height

80-90 ='Red'

91-110='Yellow'

111-high='Green';

ODS Excel File = '/folders/myfolders/Proc\_Format.xlsx';

Proc Print Data=Class NoObs;

Var ClassID Age Height / Style=[Backgroundcolor=Format\_Height.];

Where Year=2019;

Run;

ODS Excel Close;

\*Write Formula;

ODS Excel File = '/folders/myfolders/Formula.xlsx';

Options Obs=5;

Proc Report Data=Dealership;

Column Date Car Units Avg\_Price Total\_Revenue;

Define Units / Display;

Define Avg\_Price / Display;

Define Total\_Revenue / "Total\_Revenue" Computed Format=Dollar10.2

Style={TagAttr="Formula:(RC[-2]\*RC[-1])"};

Compute Total\_Revenue;

Total\_Revenue=Units\*Avg\_Price;

Endcomp;

Run;

ODS Excel Close;