EX1:

**DATALIST**

data sas;

     set sashelp.cars;

RUN;

proc sort data=sas;

    by origin;

RUN;

  title  'Listing: Subjects who did not complete or pass screening';

  footnote1 &idfoot ;

%datalist(

     data     = sas

   , page     = origin

   , by       = make

   , var      =  model msrp invoice EngineSize Cylinders Horsepower

   , freeline = make

   , together = make

   , optimal  = yes

   , maxlen = 70

   , bylen =  25    )

**PROC REPORT:**

data sas;

     set sashelp.cars;

RUN;

proc sort data=sas;

    by origin;

RUN;

ods rtf file="/var/swan/root/bhc/general/playground/training/12345/stat/main19/dev/analysis/results/ex1.rtf" style=journal;;

title1  'Listing of all Wagon cars by region and manufacturer';

proc report data= sas  headline headskip;

column origin  Make Model MSRP Invoice EngineSize Cylinders Horsepower;

by origin;

define origin / order left order=data  noprint;

define make / group  "MAKE" width=30 ;

define model / order  "MODEL" width=20 ;

define msrp / order  "MSRP" width=20 ;

define invoice / order  "INVOICE" width=10;

define EngineSize / order display "Engine Size (L)" width=30 ;

define Cylinders / order  "CYLINDERS" width=22;

define Horsepower / order  "HORSEPOWER" width=22 ;

run;

ods rtf close;;

EX2:

data sas;

     set sashelp.cars;

RUN;

title1 "Descriptive statistics for physical characteristics of Asian cars";

%desc\_freq\_tab(

    data     = sas

  , var      = horsepower weight length wheelbase

  , class    = type

  , total    = NO

  , complete = none

  , stat     = min mean max

  , maxlen   = 40

  , round\_factor = 1.0

)

**EX3;**

data ex2;

     set sashelp.cars;

RUN;

title1 "Distribution of car design types by region";

  %desc\_freq\_tab(

  data    = ex2

  , var     = type DriveTrain

  , class   = origin

  , total   = Y

  );

**EX4:**

            DATA bign(rename=(type=type\_1));

                SET sashelp.cars;

                ord=\_n\_;

            RUN;

            DATA cars4;

                SET bign;

                where msrp <12000;

            RUN;

            title "Availability of cars under $12,000 by region and manufacturer" justify=center;

            %incidence\_print(

                data                  = cars4

              , data\_n                = bign

              , subject               = ord

              , var                   = origin make

              , class                 = type\_1

              , total                 = YES

              , evlabel               = Manufacturer

              , anytxt                = Any car under $12k

            )

**EX5:**

            DATA ex5;

                SET sashelp.cars;

                new=msrp-invoice;

            RUN;

            title1 "Difference between MSRP and Invoice price by region";

            %overview\_tab(

                data                = ex5

              , data\_n              = ex5

              , class               = origin

              , subject             = make model invoice

              , total               = NO

              , groups              = "new<300"\*"Less than $300"

                                       "300<=new<1000"\*"$300 up to $1000"

                                       "1000<=new<2000"\*"$1000 up to $2000"

                                       "2000<=new<3000"\*"$2000 up to $3000"

                                        "new>=3000"\*"$3000 and above"

            )

**EX6:**

            proc sort data=sashelp.cars out=ex6 ;

                by  origin type descending invoice;

            RUN;

            proc sort data=ex6 out=ex6\_ nodupkey;

                by origin type;

            RUN;

            proc sort data=sashelp.cars(keep=origin) out=orig nodupkey;

                by  origin ;

            RUN;

            title "The most expensive cars manufactured in $origin$ by type" justify=center;

               %datalist(

                         data     = ex6\_

                       , page     = origin

                       , by       =

                       , order    = origin

                       , tablesby = orig

                       , var      = type make model msrp invoice cylinders horsepower

                       , maxlen  = optimal

                       )

**EX7:**

   %iniprog(name = t\_ex1

            , log2file        = Y

            , print2file      = N

            , createRTF       = Y);

           data ex7;

              set sashelp.cars;

              value=invoice;

           RUN;

            TITLE "Listing of all cars" ;

            %datalist(

                     data     = ex7

                   , page     = origin

                   , by       = make descending value

                   , order    = value

                   , var      = model type drivetrain msrp invoice enginesize cylinders horsepower mpg\_city mpg\_highway weight wheelbase length

                   , freeline = make

                   , together =

                   )

          %endprog;