\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 1. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

data car ;

set sashelp.cars (where= (type="Wagon")) ;

RUN;

proc sort data=car out= car\_report;

by Origin;

RUN;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Creating Listing by Proc report ;

title "Listing of all Wagon cars by region and manufacturer";

proc report data=car\_report nowd headline headskip spacing=2 split='~';

by Origin;

column origin ('\_\_' make model msrp invoice enginesize cylinders horsepower);

define origin / group style(column)=[cellwidth=10.0in];

define make / group "MAKE" width=15 left ;

define model / display"MODEL" width=10 left ;

define msrp / display "MSRP" width=10 center format =dollar10.;

define invoice / display "INVOICE" width=10 center format =dollar10.;

define enginesize / display width=8 center ;

define cylinders / display "CYLINDERS" width=10 center ;

define horsepower / display "HORSEPOWER" width=12 center ;

compute after Make;

Line " ";

ENDCOMP;

run;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Creating Listing by %DATALIST;

%set\_titles\_footnotes(

tit1 = "Listing of all Wagon cars by region and manufacturer";)

%datalist(

data = car

, page = origin

, by = make

, var = model msrp invoice enginesize cylinders horsepower

, freeline = make

, together = make

)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 2. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

data car ;

set sashelp.cars ;

RUN;

%set\_titles\_footnotes(

tit1 = "Descriptive statistics for physical characteristics of Asian cars";

)

%desc\_freq\_tab(

data = car (where=(origin="Asia"))

, var = horsepower weight length wheelbase

, class = type

, total = NO

, stat = MIN MEAN MAX

, maxlen = <default>

, ignore\_prespace = YES

)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 3. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

data car ;

set sashelp.cars ;

RUN;

%set\_titles\_footnotes(

tit1 = "Distribution of car design types by region";

)

%freq\_tab(

data = car

, var = TYPE DRIVETRAIN

, class = origin

)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 4. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

data car\_12;

set car (where=(msrp <12000));

run;

%set\_titles\_footnotes(

tit1 = "Availability of cars under $12,000 by region and manufacturer";

)

%incidence\_print(

data = car\_12

, data\_n = car

, subject = model msrp

, var = origin make

, class = product

, triggercond = make ne " "

, total = Yes

, evlabel = Manufacturer

, anytxt = Any car under $12k

, hsplit = '#@'

, together =

)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 5. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

proc format;

value diff

1="Less than $300"

2="$300 up to $1000"

3="$1000 up to $2000"

4="$2000 up to $3000"

5="$3000 and above";

RUN;

\*---Get data;

data car;

set sashelp.cars;

format diffn diff.;

diff= MSRP-INVOICE;

if diff < 300 then diffn=1;

else if 300 = < diff <1000 then diffn=2;

else if 1000 = < diff <2000 then diffn=3;

else if 2000 = < diff <3000 then diffn=4;

else if diff >= 3000 then diffn=5;

RUN;

proc sort data =car nodupkey;

by origin model make msrp;

RUN;

%set\_titles\_footnotes(

tit1 = "Difference Between MSRP and Invoice price by region"

)

%freq\_tab(

data = car

, data\_n = car

, var = diffn

, subject = model make msrp

, total = NO

, totaltxt =

, class = origin

, basepct = n\_class

, complete = none

, maxlen = 40

, print\_empty = NO

)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 6. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*---Get data;

data car;

set sashelp.cars;

RUN;

proc sort data=car out=car\_02;

by origin type descending msrp;

RUN;

\*\*-- Getting expensive cars;

data car\_value;

set car\_02;

by origin type descending msrp;

if first.type;

RUN;

%macro region(reg=);

%set\_titles\_footnotes(

tit1 = "The most expensive cars manufactured in &reg by type"

)

%LET mostocalcpercwidth=no;

%LET mostoprintpercwidth=optimal;

%insertoption(namevar=type, width=10mm, keep=n, comment=n)

%insertoption(namevar=make, width=20mm, keep=n, comment=n)

%insertoption(namevar=model, width=20mm, keep=n, comment=n)

%insertoption(namevar=msrp, width=15mm, keep=n, comment=n)

%insertoption(namevar=invoice, width=15mm, keep=n, comment=n)

%insertoption(namevar=cylinders, width=8mm, keep=n, comment=n)

%insertoption(namevar=horsepower, width=8mm, keep=n, comment=n)

%datalist(

data = car\_value

, var = type make model msrp invoice cylinders horsepower

, order = origin

, optimal = yes

, maxlen = 12

, space = 1

, hsplit = '#'

, bylen = 10

)

%mend;

%region(reg=%str(Asia))

%region(reg=%str(Europe))

%region(reg=%str(USA))

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Excer 7. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*---Get data;

data car;

set sashelp.cars;

RUN;

proc sort data =car ;

by origin make descending msrp;

RUN;

%set\_titles\_footnotes(

tit1 = "Listing of all cars"

)

%LET mostocalcpercwidth=no;

%LET mostoprintpercwidth=optimal;

%insertoption(namevar=make, width=10mm, keep=n, comment=n)

%insertoption(namevar=model, width=20mm, keep=n, comment=n)

%insertoption(namevar=type, width=10mm, keep=n, comment=n)

%insertoption(namevar=driveTrain, width=8mm, keep=n, comment=n)

%insertoption(namevar=msrp, width=15mm, keep=n, comment=n)

%insertoption(namevar=invoice, width=15mm, keep=n, comment=n)

%insertoption(namevar=enginesize, width=10mm, keep=n, comment=n)

%insertoption(namevar=cylinders, width=10mm, keep=n, comment=n)

%insertoption(namevar=horsepower, width=10mm, keep=n, comment=n)

%insertoption(namevar=mpg\_city, width=10mm, keep=n, comment=n)

%insertoption(namevar=mpg\_highway, width=10mm, keep=n, comment=n)

%insertoption(namevar=weight, width=10mm, keep=n, comment=n)

%insertoption(namevar=wheelbase, width=10mm, keep=n, comment=n)

%insertoption(namevar=length, width=10mm, keep=n, comment=n)

%datalist(

data = car

, page = Origin

, by = make

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

, freeline = make

, together = make

, optimal = yes

, maxlen = 12

, space = 1

, hsplit = '#'

, bylen = 10

)