**SESSIÓ 9 – CREACIÓ DE VARIABLES**

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\* EXERCICI 1;

\*---------------------------------------------------------;

**data** alea (drop=i);

call streaminit(**1234**);

do i = **1** to **350**;

x1=rand('normal',**0**,**1**);

x2=rand('normal',**10**,**2**);

x3=rand('uniform');

x4=**10**\*rand('uniform');

x5=-**10**+**20**\*rand('uniform');

output;

end;

**run**;

**proc** **contents** data=alea;

**run**;

**proc** **print** data=alea;

**run**;

**proc** **means** data=alea;

**run**;

**data** alea;

set alea;

y1=abs(x1);

y2=sign(x1);

y3=sqrt(x5);

y4=round(x2,**0.1**);

y5=exp(x1);

y6=max(x3,x4,x5);

y7=min(x1,x3,x4,x5);

y8=mean(abs(x1),abs(x5));

if (x1>**0**) then y9=sqrt(x1);

else

do;

if (x3<**0.5**) then y9=sqrt(x3);

else y9=cos(x3);

end;

**run**;

\*---------------------------------------------------------;

\* EXERCICI 2;

\*---------------------------------------------------------;

\* 2.1;

libname dir 'd:\s09\pr02';

**proc** **contents** data= dir.hosp;

**run**;

**data** hosp;

set dir.hosp;

if (abs(v3-v2-dies)>**0.1**) then err1=**1**; else err1=**0**;

**run**;

**proc** **print** data=hosp;

**run**;

**proc** **freq** data=hosp;

table err1;

**run**;

\* 2.2;

**data** hosp;

set hosp;

cost\_d=v4/(v3-v2);

**run**;

\* 2.3;

**proc** **print** data=hosp (where=(err1=**1**));

var v1 dies;

**run**;

\* 2.4;

**data** hosp;

set hosp;

dies2=v3-v2;

**run**;

**proc** **print** data=hosp;

**run**;

\* 2.5;

**proc** **means** data=hosp;

var cost\_d;

**run**;

**proc** **print** data=hosp (where=(cost\_d=**230000**));

var v1-v5;

**run**;

\*---------------------------------------------------------;

\* EXERCICI 3;

\*---------------------------------------------------------;

libname dir 'd:\s09\pr03';

**proc** **contents** data= dir.fami;

**run**;

**proc** **print** data=dir.fami;

**run**;

**data** fami;

set dir.fami;

c0=(menjar+oci+roba+habitatge>**100**);

c1=(menjar+oci+roba+habitatge>**50**);

c2=(habitatge>menjar+oci+roba);

if (menjar+roba>habitatge) c3=**1**; else c3=**2**;

if (oci>habitatge | roba>habitatge) then c4=**1**; else c4=**2**;

format c5 $14.;

if (roba+menjar>**0.45**\*habitatge) then c5="SUP30"; else c5="INFERIOR A 30";

**run**;

**proc** **print** data=fami;

format c5 $14.;

**run**;

\*---------------------------------------------------------;

\* EXERCICI 4;

\*---------------------------------------------------------;

\* 4.1;

libname dir 'd:\s09\pr04';

**proc** **contents** data= dir.muni position;

**run**;

**proc** **print** data=dir.muni;

**run**;

**data** muni (drop=pobm pobf pob);

set dir.muni;

pobm=P0\_14m+P15\_29m+P30\_44m+P45\_64m+p65m;

pobf=P0\_14f+P15\_29f+P30\_44f+P45\_64f+p65f;

pob=pobm+pobf;

densitat=pob/x4;

**run**;

**proc** **print** data=muni;

**run**;

\* 4.2;

**data** muni;

set muni;

sup\_1=(x4>**24.72**);

/\* if (x4>24.72) then sup\_1=1; else sup\_1=0; \*/

**run**;

**proc** **print** data=muni;

**run**;

**proc** **freq** data=muni;

table sup\_1;

**run**;

**proc** **means** data=muni;

var x4;

class sup\_1;

**run**;

\* 4.3;

**data** muni2(keep=x1 x2 x3 x4 where=(x3='Alt Penedès'));

set muni;

**run**;

options nonumber nodate;

title;

ods listing file='d:\S09\pr04\muni.dat';

**proc** **print** data=muni2;

**run**;

ods listing close;