**SESSIÓ 8 – ESTADÍSTICA DESCRIPTIVA II**

\*\*\*\*\*\*\* Exercici 1 \*\*\*\*\*\*\*\*\*\*\*\*;

libname dir 'd:\s08\dades\ej1';

**data** salaris;

set dir.salaris;

**run**;

**proc** **contents** data=salaris position;

**run**;

**proc** **print** data=salaris;

**run**;

libname fmtdir 'd:\s08\dades';

option fmtsearch=(fmtdir);

**proc** **format** library=fmtdir;

value $genere **0**='Dona'

**1**='Home';

value edatc low-**30**='Jove'

**31**-**50**='Adult'

**51**-high='Gran';

**run**;

**data** salaris;

set dir.salaris;

format sexe $genere. edat edatc.;

**run**;

**proc** **freq** data=salaris;

table sexe\*edat;

**run**;

\*\*\*\*\*\*\* Exercici 2 \*\*\*\*\*\*\*\*\*\*\*\*;

libname dir 'd:\s08\dades\ej2';

option fmtsearch=(dir);

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

**run**;

**proc** **format** fmtlib library=dir;

**run**;

**proc** **means** data=dir.enctran n mean std cv min max maxdec=**2**;

var alt;

**run**;

**proc** **means** data=dir.enctran n mean std cv min max maxdec=**2**;

var alt;

class curso;

**run**;

**proc** **means** data=dir.enctran n mean std cv min max maxdec=**2**;

var alt2;

**run**;

**proc** **means** data=dir.enctran n q1 q3 maxdec=**2**;

var alt2;

**run**;

**data** enctran;

set dir.enctran;

**run**;

**proc** **sort** data=enctran out=enctran\_ord;

by alt2;

**run**;

**proc** **print** data=enctran\_ord;

**run**;

**data** enctran;

set enctran;

alt2b=alt2-**171**;

**run**;

**proc** **means** data=enctran n mean std t probt maxdec=**2**;

var alt2 alt2b;

**run**;

\*\*\*\*\*\*\* Exercici 3 \*\*\*\*\*\*\*\*\*\*\*\*;

libname dir 'd:\s08\dades\ej3';

options fmtsearch=(dir);

**proc** **format** fmtlib library=dir;

**run**;

**data** salaris;

set dir.salaris;

**run**;

**proc** **contents** data=salaris position;

**run**;

**proc** **means** data=salaris alpha=**0.01** clm;

var sou;

**run**;

**proc** **means** data=salaris alpha=**0.05** clm;

var sou;

**run**;

**data** salaris;

set salaris;

sou\_2700=sou-**2700**;

**run**;

**proc** **means** data=salaris n mean std t probt maxdec=**3**;

var sou sou\_2700;

**run**;

**proc** **means** data=salaris alpha=**0.1** clm;

var sou;

class genere;

**run**;

**proc** **means** data=salaris n mean std cv min p5 q1 median q3 p95 max maxdec=**2**;

var edat sou;

class genere;

**run**;

\*\*\*\*\*\*\* Exercici 4 \*\*\*\*\*\*\*\*\*\*\*\*;

libname dir 'd:\s08\dades\ej4';

options fmtsearch=(dir);

**data** estu;

set dir.estu;

**run**;

**proc** **contents** data=estu position;

**run**;

ods listing file='d:\means.lst';

**proc** **means** data=estu n min max mean std maxdec=**2** printalltypes;

var v2 v3;

class v1;

**run**;

ods listing close;

**proc** **means** data=estu alpha=**0.1** clm maxdec=**2**;

var v2 v3;

**run**;

**data** estu;

set estu;

edat\_18=v2-**18**;

pes\_65=v3-**65**;

altura\_174=altura-**174**;

**run**;

**proc** **means** data=estu n mean std alpha=**0.2** lclm maxdec=**2**;

var v4;

**run**;

\*\*\*\*\*\*\* Exercici 5 \*\*\*\*\*\*\*\*\*\*\*\*;

libname dir 'd:\s08\dades\ej5';

options fmtsearch=(dir);

**data** ebpf;

set dir.ebpf;

**run**;

**proc** **contents** data=ebpf;

**run**;

**proc** **print** data=ebpf;

**run**;

**proc** **corr** data=ebpf;

var gf1 gf2 gftotal;

**run**;

**proc** **corr** data=ebpf;

var gf1 gf2;

with gftotal;

**run**;

**proc** **means** data=ebpf n mean std;

var gftotal;

**run**;

**proc** **means** data=ebpf (where=(codigo='N')) n sum;

var gf1;

**run**;

**proc** **means** data=ebpf (where=(codigo='S')) n sum;

var gf1;

**run**;

**proc** **means** data=ebpf (where=(codigo='N')) n sum;

var gf2;

**run**;

**proc** **means** data=ebpf (where=(codigo='S')) n sum;

var gf2;

**run**;

**proc** **means** data=ebpf (where=(codigo='C' | codigo='S')) n std;

var gf2;

**run**;

**proc** **means** data=ebpf n median;

var gf1;

**run**;

**proc** **print** data=ebpf (where=(gf1<**594.5**));

**run**;

**proc** **corr** data=ebpf;

var gf1 gf2;

**run**;

**proc** **corr** data=ebpf (where=(codigo='N' | codigo='E'));

var gf1 gf2;

**run**;

**proc** **corr** data=ebpf (where=(codigo='C' | codigo='S'));

var gf1 gf2;

**run**;