proc means data=CAPSTONE.FRAUD chartype mean min max median mode vardef=df

skewness kurtosis qmethod=os;

var months\_as\_customer age incident\_hour\_of\_the\_day

number\_of\_vehicles\_involved bodily\_injuries witnesses;

run;

ods noproctitle;

A screenshot of a number table

Description automatically generated

proc freq data=CAPSTONE.FRAUD;

tables (policy\_state insured\_sex insured\_education\_level insured\_occupation

incident\_type collision\_type incident\_severity authorities\_contacted

police\_report\_available) \*(fraud\_reported) / chisq norow nocol nocum

plots=none;

run;

ods noproctitle;

ods graphics / imagemap=on;

A screenshot of a computer

Description automatically generatedA table of table of fraud

Description automatically generated with medium confidence

A screenshot of a computer screen

Description automatically generatedA screenshot of a table

Description automatically generated

A screenshot of a computer screen

Description automatically generatedA screenshot of a data

Description automatically generated

A screenshot of a computer

Description automatically generatedA screenshot of a table of insured numbers

Description automatically generated

A screenshot of a computer

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A screenshot of a computer screen

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Description automatically generated

A screenshot of a computer

Description automatically generatedA screenshot of a report

Description automatically generated

proc logistic data=CAPSTONE.FRAUD plots=none;

class policy\_state insured\_sex insured\_education\_level insured\_occupation /

param=glm;

model fraud\_reported(event='Y')=policy\_state insured\_sex

insured\_education\_level insured\_occupation months\_as\_customer age /

link=logit technique=fisher;

run;

ods noproctitle;

ods graphics / imagemap=on;

A screenshot of a computer

Description automatically generated A screenshot of a table

Description automatically generated

proc logistic data=CAPSTONE.FRAUD plots=none;

class incident\_type collision\_type incident\_severity authorities\_contacted

police\_report\_available / param=glm;

model fraud\_reported(event='Y')=incident\_type collision\_type incident\_severity

authorities\_contacted police\_report\_available incident\_hour\_of\_the\_day

number\_of\_vehicles\_involved bodily\_injuries witnesses / link=logit

technique=fisher;

run;

ods noproctitle;

ods graphics / imagemap=on;

A screenshot of a computer

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Description automatically generated

proc logistic data=CAPSTONE.FRAUD plots=none;

class incident\_type collision\_type incident\_severity authorities\_contacted

police\_report\_available policy\_state insured\_sex insured\_education\_level

insured\_occupation / param=glm;

model fraud\_reported(event='Y')=incident\_type collision\_type incident\_severity

authorities\_contacted police\_report\_available policy\_state insured\_sex

insured\_education\_level insured\_occupation incident\_hour\_of\_the\_day

number\_of\_vehicles\_involved bodily\_injuries witnesses policy\_number

months\_as\_customer age / link=logit selection=stepwise slentry=0.05

slstay=0.05 hierarchy=single technique=fisher;

run;

A screenshot of a computer

Description automatically generatedA screenshot of a data analysis

Description automatically generated