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proc genmod;
  class year limit day;
  model y=year limit year*limit day/dist=poi link=log type1 type3;
run;

```

The GENMOD Procedure

Model Information

Data Set	WORK.TRAFFIC
Distribution	Poisson
Link Function	Log
Dependent Variable	y
Number of Observations Read	184
Number of Observations Used	184

Class Level Information

Class	Levels	Values
year	2	1961 1962
limit	2	no yes
day	92	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 ...

Criteria For Assessing Goodness Of Fit

Criterion	DF	Value	Value/DF
Deviance	89	103.8901	1.1673
Scaled Deviance	89	103.8901	1.1673
Pearson Chi-Square	89	102.9354	1.1566
Scaled Pearson X2	89	102.9354	1.1566
Log Likelihood		8469.5176	

Analysis Of Parameter Estimates

Parameter	DF	Estimate	Standard Error	Wald	95% Confidence Limits	Chi-Square	Pr > ChiSq
Intercept	1	2.5316	0.1844	2.1702	2.8931	188.45	<.0001
year 1961	1	0.1653	0.0854	-0.0020	0.3326	3.75	0.0528
year 1962	0	0.0000	0.0000	0.0000	0.0000	.	.
limit no	1	0.3777	0.0676	0.2452	0.5102	31.22	<.0001
limit yes	0	0.0000	0.0000	0.0000	0.0000	.	.
year*limit 1961 no	1	-0.2167	0.1209	-0.4536	0.0203	3.21	0.0731

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Scale	0	1.0000	0.0000	1.0000	1.0000
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NOTE: The scale parameter was held fixed.

LR Statistics For Type 1 Analysis

Source	Deviance	DF	Chi-Square	Pr > ChiSq
Intercept	625.2451			
year	612.6965	1	12.55	0.0004
limit	585.7035	1	26.99	<.0001
year*limit	585.6977	1	0.01	0.9394
day	103.8901	91	481.81	<.0001

LR Statistics For Type 3 Analysis

Source	DF	Chi-Square	Pr > ChiSq
year	1	2.15	0.1422
limit	1	38.17	<.0001
year*limit	1	3.22	0.0729
day	91	481.81	<.0001

```

proc genmod;
  class year limit day;
  model v=year limit day/dist=poi link=log type1 type3;
  lsmeans limit;
run;

```

The GENMOD Procedure

Model Information

Data Set	WORK.TRAFFIC
Distribution	Poisson
Link Function	Log
Dependent Variable	y

Number of Observations Read	184
Number of Observations Used	184

Criteria For Assessing Goodness Of Fit

Criterion	DF	Value	Value/DF
Deviance	90	107.1055	1.1901
Scaled Deviance	90	107.1055	1.1901
Pearson Chi-Square	90	106.1303	1.1792
Scaled Pearson X2	90	106.1303	1.1792
Log Likelihood		8467.9099	

Algorithm converged.

Analysis Of Parameter Estimates

Parameter	DF	Estimate	Standard Error	Wald	95% Confidence Limits	Chi-Square	Pr > ChiSq
Intercept	1	2.5413	0.1843	2.1801	2.9025	190.11	<.0001
year	1961	1	0.0254	0.0346	-0.0424	0.0932	0.54
year	1962	0	0.0000	0.0000	0.0000	0.0000	.
limit	no	1	0.2842	0.0430	0.2000	0.3685	43.69
limit	yes	0	0.0000	0.0000	0.0000	0.0000	.
day	1	1	-0.6411	0.2988	-1.2267	-0.0555	4.60

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Scale	0	1.0000	0.0000	1.0000	1.0000
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NOTE: The scale parameter was held fixed.

LR Statistics For Type 1 Analysis

Source	Deviance	DF	Chi-Square	Pr > ChiSq
Intercept	625.2451			
year	612.6965	1	12.55	0.0004
limit	585.7035	1	26.99	<.0001
day	107.1055	91	478.60	<.0001

LR Statistics For Type 3 Analysis

Source	DF	Chi-Square	Pr > ChiSq
year	1	0.54	0.4631
limit	1	44.08	<.0001
day	91	478.60	<.0001

Least Squares Means

Effect	limit	Estimate	Standard Error	DF	Chi-Square	Pr > ChiSq
limit	no	3.1124	0.0222	1	19690	<.0001
limit	yes	2.8282	0.0331	1	7284.8	<.0001