

```

*****
***** .
* .
* .
* Program to create legacy propensity model for charity client,
* .
* September 2009.
* .
*****
***** .
* match together the aggregated transaction file (one record per supporter
), the
supporter attribute file and the file with the legacy and pledge flags
to create a base analysis file.
match files/file='C:\wip\clients\charity\legacy 2009\legacy_sup.sav'
  /table='C:\wip\clients\charity\legacy 2009\payment_agg.sav'
  /table='C:\wip\clients\charity\legacy 2009\legacy_foh_2009_agg.sav'
  /by supporter.
execute.
* fill in blanks for each of the flags.
if (sysmis(tot_val)) tot_val=0.
if (sysmis(ann_sub)) ann_sub=0.
if (sysmis(cash)) cash=0.
if (sysmis(catalogue)) catalogue=0.
if (sysmis(deed_of_cov)) deed_of_cov=0.
if (sysmis(lottery)) lottery=0.
if (sysmis(h2h)) h2h=0.
if (sysmis(trad_don)) trad_don=0.
if (sysmis(box)) box=0.
if (sysmis(pay_so)) pay_so=0.
if (sysmis(pay_cash)) pay_cash=0.
if (sysmis(tot_ann_sub)) tot_ann_sub=0.
if (sysmis(tot_cash)) tot_cash=0.
if (sysmis(tot_catalogue)) tot_catalogue=0.
if (sysmis(tot_deed_of_cov)) tot_deed_of_cov=0.
if (sysmis(tot_lottery)) tot_lottery=0.
if (sysmis(tot_h2h)) tot_h2h=0.
if (sysmis(tot_trad_don)) tot_trad_don=0.
if (sysmis(tot_box)) tot_box=0.
if (sysmis(tot_pay_so)) tot_pay_so=0.
if (sysmis(tot_pay_cash)) tot_pay_cash=0.
if (sysmis(leg_int)) leg_int=0.
if (sysmis(leg_pled)) leg_pled=0.
if (sysmis(leg_leg)) leg_leg=0.
if (sysmis(leg_pros)) leg_pros=0.

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if (sysmis(mn_pay_cash)) mn_pay_cash=0.
if (sysmis(mn_pay_so)) mn_pay_so=0.
if (sysmis(tot_val)) tot_val=0.
execute.
* save the file for use with the modelling.
save outfile='C:\wip\clients\charity\legacy 2009\legacy_analysis_09.sav'
  /compressed
  /drop=Initials Forename Surname Address1 Address2 Address3 Town County
  landline mobile.
*****
*****.
* start of analysis and profiling.
*****
*****.
* get the modelling and analysis file.
get file='C:\wip\clients\charity\legacy 2009\legacy_analysis_09.sav'.
* recode mean values in bands.
recode tot_cash tot_catalogue tot_deed_of_cov tot_lottery tot_h2h tot_trad
_don tot_box tot_pay_so tot_pay_cash
  (1=1) (2=2) (3=3) (4 thru 5=4) (6 thru 10=5) (11 thru 20=6) (20 thru hi=7
) (else=0)
into tot_cashb tot_catalogueb tot_deed_of_covb tot_lotteryb tot_h2hb tot_t
rad_donb tot_boxb tot_pay_sob tot_pay_cashb.
recode mn_ann_sub mn_cash mn_catalogue mn_deed_of_cov mn_lottery mn_h2h mn
_trad_don mn_box mn_pay_so mn_pay_cash
  (0 thru 5=1) (5 thru 10=2) (10 thru 20=3) (20 thru 50=4) (50 thru 100=5)
(100 thru 500=6) (500 thru hi=7) (else=0)
into mn_ann_subb mn_cashb mn_catalogueb mn_deed_of_covb mn_lotteryb mn_h2h
b mn_trad_donb mn_boxb mn_pay_sob mn_pay_cashb.
value labels mn_ann_subb mn_cashb mn_catalogueb mn_deed_of_covb mn_lottery
b mn_h2hb mn_trad_donb mn_boxb mn_pay_sob mn_pay_cashb
  0 'None' 1 'Up to £5' 2 '£5 to 10' 3 '£10 to 20' 4 '£20 to 50' 5 '£50 t
o 100' 6 '£100 to 500' 7 '£500 plus'
  /tot_cashb tot_catalogueb tot_deed_of_covb tot_lotteryb tot_h2hb tot_trad
_donb tot_boxb tot_pay_sob tot_pay_cashb
  0 'None' 1 'One' 2 'Two' 3 'Three' 4 '4 to 5' 5 '6 to 10' 6 '11 to 20'
7 'Twenty plus'.
* recode title into banded variable - pulling out military salutations.
compute tit_code=0.
if (substr(title,1,3) eq 'Mr ') tit_code=1.
if (substr(title,1,3) eq 'Mrs') tit_code=2.
if (substr(title,1,3) eq 'Mis') tit_code=3.
if (substr(title,1,2) eq 'Ms') tit_code=4.
if (substr(title,1,2) eq 'Dr') tit_code=5.

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if (substr(title,1,2) eq 'Lt' or substr(title,1,2) eq 'Li' or substr(title
,1,2) eq 'Ma' or substr(title,1,2) eq 'Ad'
or substr(title,1,2) eq 'Ai' or substr(title,1,3) eq 'Bri' or substr(titl
e,1,3) eq 'Cap' or substr(title,1,2) eq 'Cd'
or substr(title,1,3) eq 'Col' or substr(title,1,2) eq 'Cm' or substr(titl
e,1,2) eq 'Fl' or substr(title,1,2) eq 'Ge'
or substr(title,1,2) eq 'Fl' or substr(title,1,2) eq 'Gp' or substr(title
,1,3) eq 'R A' or substr(title,1,3) eq 'Rea'
or substr(title,1,2) eq 'Sg' or substr(title,1,2) eq 'Sq' or substr(title
,1,2) eq 'Wg' or substr(title,1,2) eq 'Su') tit_code=6.
value labels tit_code 0 'Other' 1 'Mr' 2 'Mrs' 3 'Miss' 4 'Ms' 5 'Dr' 6 'M
ilitary'.
* calculate age and age band.
* note age, though a verify important variable will not be used for model b
uilding purposes.
compute age=2009-yob.
recode age (1 thru 30=1) (31 thru 45=2) (45 thru 55=3) (55 thru 65=4) (65
thru 75=5) (75 thru hi=6) (else=0)
into age_bnd.
missing values age (0).
value labels age_bnd 1 'Under 30' 2 '31 to 45' 3 '46 to 55' 4 '56 to 65' 5
'66 to 75' 6 '75 plus' 0 'Unknown'.
* create a variable that shows the number of relationships.
compute comp_scr=pay_cash+pay_so+catalogue.
value labels comp_scr 0 'No support' 1 'One type' 2 'Two types' 3 'Three t
ypes'.
variable labels comp_scr 'Number of relationships'.
value labels leg_leg 0 'Not legator' 1 'Legator'
/leg_pled 0 'Not Legacy pledger' 1 'Legacy pledger'.
* examine length of relationship with charity.
compute lifetime=datediff(last_date,first_date,'months').
if (sysmis(lifetime)) lifetime=0.
execute.
variable labels supporter 'Supporter URN'
/title 'Supporter title (raw)'
/postcode 'Supporter postcode'
/Sex 'Supporter gender'
/tit_code 'Supporter title'
/age 'Age of supporter'
/age_bnd 'Supporter age (banded)'
/GiftAidStatus 'Gift aid status'
/SupporterStatus 'Supporter status'
/ann_sub 'Annual subscription supporter'
/cash 'Cash gift supporter'
/catalogue 'Catalogue or trade supporter'

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/deed\_of\_cov 'Supporter has deed of covenant'  
/lottery 'Lottery supporter'  
/h2h 'house to house supporter'  
/trad\_don 'Trading donation support'  
/box 'Collection box supporter'  
/pay\_so 'Paid by standing order'  
/pay\_cash 'Paid by cash'  
/tot\_ann\_sub 'Total value of annual subscription'  
/mn\_ann\_subb 'Mean value of annula subscription (banded)'  
/mn\_cashb 'Mean value of cash donations (banded)'  
/mn\_catalogueb 'Mean value of trade (banded)'  
/mn\_deed\_of\_covb 'Mean value of deed of covenant (banded)'  
/mn\_lotteryb 'Mean value of lottery (banded)'  
/mn\_h2hb 'Mean value of H2H (banded)'  
/mn\_trad\_donb 'Mean value of trade donations (banded)'  
/mn\_boxb 'Mean value of collections (banded)'  
/mn\_pay\_sob 'Mean value of standing order (banded)'  
/mn\_pay\_cashb 'Mean value of cash payments'  
/tot\_cashb 'Number of cash donations (banded)'  
/tot\_catalogueb 'Total number of tade purchases (banded)'  
/tot\_deed\_of\_covb 'Total number of deed of covenant (banded)'  
/tot\_lotteryb 'Total number of lottery (banded)'  
/tot\_h2hb 'Total number H2H donations (banded)'  
/tot\_trad\_donb 'Total number of trade donations (banded)'  
/tot\_boxb 'Total number of collections (banded)'  
/tot\_pay\_sob 'Total number of standing order payments (banded)'  
/tot\_pay\_cashb 'Total number of cash payments (banded)'  
/tot\_cash 'Total number of cash gifts'  
/tot\_catalogue 'Total number if catalogue transaction'  
/tot\_deed\_of\_cov 'Total number of Deed of Covenant donations'  
/tot\_lottery 'Total number if lotteries'  
/tot\_h2h 'Total number of H2H donations'  
/tot\_trad\_don 'Total number of trading donatiobns'  
/tot\_box 'Total number if collections donations'  
/tot\_pay\_so 'Total number of standing order transa ctions'  
/tot\_pay\_cash 'Total number of cash transactions'  
/mn\_ann\_sub 'Mean value of annual subscription'  
/mn\_cash 'Mean value of cash gifts'  
/mn\_catalogue 'Mean value of trade'  
/mn\_deed\_of\_cov 'Mean value of deed of covenant'  
/mn\_lottery 'Mean value of lottery'  
/mn\_h2h 'Mean value of H2H'  
/mn\_trad\_don 'Mean value of trade donations'  
/mn\_box 'Mean value of collections'  
/mn\_pay\_so 'Mean value of standing order payments'

```

/mn_pay_cash 'Mean value of cash payments'
/leg_int 'Intender flag'
/leg_pled 'Pledger flag'
/leg_leg 'Legator flag'
/leg_pros 'Legacy prospect flag'
/tot_catalogue 'Total number of catalogue purchases'
/lifetime 'Time with charity'
/no_trans 'Total number of transactions'
/first_date 'Date of first transaction'
/last_date 'Date of last transaction'
/first_foh 'First form of help'
/first_appealcode 'First appeal code'
/first_campaigncode 'First campaign code'
/tot_val 'Total value of transactions'
/YOB 'Year of birth'
/DOB 'Date of birth'
/Email 'Email address'
/CanMailFlag 'Supporter mail flag'
/CanEmailFlag 'Supporter email flag'
/CanPhoneFlag 'Supporter phone flag'.
* check to see if supporter has any financial information and get rid of a
ny supporter details if no gift info present.
compute value_grp=1.
IF (tot_val le 0) value_grp=0.
select if (value_grp eq 1).
EXECUTE .
* examine relationships for within data.
* crosstabs tables=
Sex tit_code age_bnd GiftAidStatus SupporterStatus
ann_sub cash catalogue deed_of_cov lottery h2h trad_don box pay_so
pay_cash tot_ann_sub
mn_ann_subb mn_cashb mn_catalogueb mn_deed_of_covb mn_lotteryb mn_h2hb mn_
trad_donb mn_boxb mn_pay_sob mn_pay_cashb
tot_cashb tot_catalogueb tot_deed_of_covb tot_lotteryb tot_h2hb tot_trad_d
onb tot_boxb tot_pay_sob tot_pay_cashb
by leg_int leg_pled leg_leg leg_pros.
fre var leg_leg leg_pled mn_cashb tot_cashb.

```

## Frequencies

### Notes

Output Created	30-Sep-2009 09:46:16
Comments	

### Notes

Input	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
	Syntax	fre var leg_leg leg_pled mn_cashb tot_cashb.
Resources	Processor Time	0:00:36.781
	Elapsed Time	0:00:36.844

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09.sav

### Statistics

		Legator flag	Pledger flag	Mean value of cash donations (banded)	Number of cash donations (banded)
N	Valid	1340328	1340328	1340328	1340328
	Missing	0	0	0	0

### Frequency Table

#### Legator flag

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not legator	1335168	99.6	99.6	99.6
	Legator	5160	.4	.4	100.0
	Total	1340328	100.0	100.0	

#### Pledger flag

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Legacy pledger	1337926	99.8	99.8	99.8
	Legacy pledger	2402	.2	.2	100.0
	Total	1340328	100.0	100.0	

#### Mean value of cash donations (banded)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	None	889786	66.4	66.4	66.4
	Up to £5	124668	9.3	9.3	75.7
	£5 to 10	120185	9.0	9.0	84.7
	£10 to 20	107101	8.0	8.0	92.6
	£20 to 50	70110	5.2	5.2	97.9

**Mean value of cash donations (banded)**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	£50 to 100	18428	1.4	1.4	99.3
	£100 to 500	9184	.7	.7	99.9
	£500 plus	866	.1	.1	100.0
	Total	1340328	100.0	100.0	

crosstabs tables= comp\_scr age\_bnd by leg\_leg leg\_pled /stats=chisq.

**Number of cash donations (banded)**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	None	889765	66.4	66.4	66.4
	One	228618	17.1	17.1	83.4
	Two	67756	5.1	5.1	88.5
	Three	35614	2.7	2.7	91.2
	4 to 5	39348	2.9	2.9	94.1
	6 to 10	42127	3.1	3.1	97.2
	11 to 20	27217	2.0	2.0	99.3
	Twenty plus	9883	.7	.7	100.0
	Total	1340328	100.0	100.0	

**Crosstabs**

**Notes**

Input	Output Created	30-Sep-2009 09:46:53
	Comments	
	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
Missing Value Handling	N of Rows in Working Data File	1340328
	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Resources	Syntax	crosstabs tables= comp_scr age_bnd by leg_leg leg_pled /stats=chisq.
	Processor Time	0:00:36.953
	Elapsed Time	0:00:37.047
	Dimensions Requested	2
	Cells Available	174762

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09.sav

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Number of relationships * Legator flag	1340328	100.0%	0	.0%	1340328	100.0%
Number of relationships * Pledger flag	1340328	100.0%	0	.0%	1340328	100.0%
Supporter age (banded) * Legator flag	1340328	100.0%	0	.0%	1340328	100.0%
Supporter age (banded) * Pledger flag	1340328	100.0%	0	.0%	1340328	100.0%

**Number of relationships \* Legator flag**

**Crosstab**

Count

		Legator flag		
		Not legator	Legator	Total
Number of relationships	No support	115378	102	115480
	One type	1024093	2354	1026447
	Two types	174346	1925	176271
	Three types	21351	779	22130
	Total	1335168	5160	1340328

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	8883.379 <sup>a</sup>	3	.000
Likelihood Ratio	4757.433	3	.000
Linear-by-Linear Association	6209.878	1	.000
N of Valid Cases	1340328		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 85.20.

**Number of relationships \* Pledger flag**

**Crosstab**

Count

		Pledger flag		
		Not Legacy pledger	Legacy pledger	Total
Number of relationships	No support	115439	41	115480
	One type	1025791	656	1026447
	Two types	175287	984	176271
	Three types	21409	721	22130
	Total	1337926	2402	1340328

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	14038.064 <sup>a</sup>	3	.000
Likelihood Ratio	4958.176	3	.000
Linear-by-Linear Association	7250.814	1	.000
N of Valid Cases	1340328		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 39.66.

**Supporter age (banded) \* Legator flag**

**Crosstab**

Count

		Legator flag		
		Not legator	Legator	Total
Supporter age (banded)	Unknown	1039285	5031	1044316
	Under 30	38138	0	38138
	31 to 45	95125	2	95127
	46 to 55	59824	2	59826
	56 to 65	54397	2	54399
	66 to 75	27785	9	27794
	75 plus	20614	114	20728
	Total	1335168	5160	1340328

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	1304.299 <sup>a</sup>	6	.000
Likelihood Ratio	2239.597	6	.000
Linear-by-Linear Association	696.304	1	.000
N of Valid Cases	1340328		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 79.80.

**Supporter age (banded) \* Pledger flag**

**Crosstab**

Count

		Pledger flag		Total
		Not Legacy pledger	Legacy pledger	
Supporter age (banded)	Unknown	1042323	1993	1044316
	Under 30	38137	1	38138
	31 to 45	95118	9	95127
	46 to 55	59807	19	59826
	56 to 65	54303	96	54399

**Crosstab**

Count

		Pledger flag		Total
		Not Legacy pledger	Legacy pledger	
Supporter age (banded)	66 to 75	27692	102	27794
	75 plus	20546	182	20728
	Total	1337926	2402	1340328

**Chi-Square Tests**

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	920.995 <sup>a</sup>	6	.000
Likelihood Ratio	846.901	6	.000
Linear-by-Linear Association	45.930	1	.000
N of Valid Cases	1340328		

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 37.15.

means tables=lifetime by leg\_leg leg\_pled.

**Means**

**Notes**

	Output Created	30-Sep-2009 09:47:31
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
	Syntax	means tables=lifetime by leg_leg leg_pled.
Resources	Processor Time	0:00:41.312
	Elapsed Time	0:00:41.453

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09.sav

### Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Time with charity * Legator flag	1340328	100.0%	0	.0%	1340328	100.0%
Time with charity * Pledger flag	1340328	100.0%	0	.0%	1340328	100.0%

#### Time with charity \* Legator flag

Time with charity

Legator flag	Mean	N	Std. Deviation
Not legator	42.2182	1335168	57.26541
Legator	76.1318	5160	64.97254
Total	42.3488	1340328	57.33552

#### Time with charity \* Pledger flag

Time with charity

Pledger flag	Mean	N	Std. Deviation
Not Legacy pledger	42.1220	1337926	57.04975
Legacy pledger	168.6391	2402	74.28706
Total	42.3488	1340328	57.33552

\* save file for model examination.

save outfile='C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav'.

\*get file='C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav'

.

\* determine number of pledgers and legators so that sample sizes can be created.

fre var leg\_leg leg\_pled.

## Frequencies

### Notes

Input	Output Created	30-Sep-2009 09:49:25
	Comments	
	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
	Syntax	fre var leg_leg leg_pled.

**Notes**

Resources	Processor Time	0:00:03.703
	Elapsed Time	0:00:12.204

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav

**Statistics**

		Legator flag	Pledger flag
N	Valid	1340328	1340328
	Missing	0	0

**Frequency Table**

**Legator flag**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not legator	1335168	99.6	99.6	99.6
	Legator	5160	.4	.4	100.0
	Total	1340328	100.0	100.0	

**Pledger flag**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Not Legacy pledger	1337926	99.8	99.8	99.8
	Legacy pledger	2402	.2	.2	100.0
	Total	1340328	100.0	100.0	

```
* set up equal groups for test purposes.
compute #rand_no=uniform(1).
compute sel_leg=0.
if (leg_leg eq 0 and #rand_no le 0.001872424) sel_leg=1.
if (leg_leg eq 1 and #rand_no le 0.484496124) sel_leg=1.
* check that the groups are roughly equal.
crosstabs sel_leg by leg_leg.
```

**Crosstabs**

**Notes**

	Output Created	30-Sep-2009 09:49:38
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328

### Notes

Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
	Syntax	crosstabs sel_leg by leg_leg.
Resources	Processor Time	0:00:03.812
	Elapsed Time	0:00:03.844
	Dimensions Requested	2
	Cells Available	174762

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav

### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sel_leg * Legator flag	1340328	100.0%	0	.0%	1340328	100.0%

### sel\_leg \* Legator flag Crosstabulation

Count		Legator flag		
		Not legator	Legator	Total
sel_leg	.00	1332718	2716	1335434
	1.00	2450	2444	4894
	Total	1335168	5160	1340328

```
compute #rand_no=uniform(1).
compute sel_pled=0.
if (leg_pled eq 1 and #rand_no le 0.520399667) sel_pled=1.
if (leg_pled eq 0 and #rand_no le 0.000934282) sel_pled=1.
* check that the groups are roughly equal.
crosstabs sel_pled by leg_pled.
```

### Crosstabs

#### Notes

Output Created	30-Sep-2009 09:49:42
Comments	
Input Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal.sav
Filter	<none>
Weight	<none>
Split File	<none>
N of Rows in Working Data File	1340328

### Notes

Missing Value Handling    Resources	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
	Syntax	crosstabs sel_pled by leg_pled.
	Processor Time	0:00:04.172
	Elapsed Time	0:00:04.171
	Dimensions Requested	2
	Cells Available	174762

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav

### Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
sel_pled * Pledger flag	1340328	100.0%	0	.0%	1340328	100.0%

### sel\_pled \* Pledger flag Crosstabulation

Count

		Pledger flag		Total
		Not Legacy pledger	Legacy pledger	
sel_pled	.00	1336666	1162	1337828
	1.00	1260	1240	2500
	Total	1337926	2402	1340328

```
compute leg_pledge_flag=leg_pled+leg_leg.
if (leg_pledge_flag ge 1) leg_pledge_flag eq 1.
fre var leg_pledge_flag.
```

## Frequencies

### Notes

Input	Output Created	30-Sep-2009 09:49:46
	Comments	
	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.

**Notes**

	Syntax	fre var leg_pledge_flag.
Resources	Processor Time	0:00:03.812
	Elapsed Time	0:00:03.813

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav

**Statistics**

leg\_pledge\_flag

N	Valid	1340328
	Missing	0

**leg\_pledge\_flag**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00	1333028	99.5	99.5	99.5
	1.00	7300	.5	.5	100.0
Total		1340328	100.0	100.0	

```
compute sel_legpled =0.
if (sel_pled eq 1 or sel_leg eq 1) sel_legpled=1.
* check that the groups are roughly equal.
crosstabs tables=leg_pledge_flag by sel_legpled.
```

**Crosstabs**

**Notes**

	Output Created	30-Sep-2009 09:49:50
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
	Syntax	crosstabs tables=leg_pledge_flag by sel_legpled.
Resources	Processor Time	0:00:14.610
	Elapsed Time	0:01:35.485
	Dimensions Requested	2
	Cells Available	174762

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal.sav

**Case Processing Summary**

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
leg_pledge_flag * sel_legpled	1340328	100.0%	0	.0%	1340328	100.0%

**leg\_pledge\_flag \* sel\_legpled Crosstabulation**

Count

		sel_legpled		
		.00	1.00	Total
leg_pledge_flag	.00	1329327	3701	1333028
	1.00	3676	3624	7300
Total		1333003	7325	1340328

```

* add labels.
variable labels sel_leg 'Selection flag for legacy only model'
/sel_pled 'Selection flag for pledge only model'
/leg_pledge_flag 'Legator or pledger flag'
/sel_legpled 'Selection flag for legacy and pledger only model'.
* save the data for later use.
save outfile='C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal_mod.sav'
/compressed.
*get file='C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal_mod.sav'.
* note that this is an iterative process and variables are entered and removed as required.
LOGISTIC REGRESSION VARIABLES leg_pledge_flag
  /SELECT = sel_legpled EQ 1
  /METHOD = ENTER tit_code mn_pay_cash mn_pay_cashb tot_pay_cash tot_pay_cashb
  pay_cash box trad_don h2h lottery catalogue deed_of_cov
  tot_val GiftAidStatus Sex lifetime
  /CONTRAST (GiftAidStatus)=Indicator /CONTRAST (Sex)=Indicator /CONTRAST
T
  (tit_code)=Indicator /CONTRAST (box)=Indicator /CONTRAST
  (trad_don)=Indicator /CONTRAST
  (pay_cash)=Indicator /CONTRAST (h2h)=Indicator /CONTRAST
  (lottery)=Indicator /CONTRAST (catalogue)=Indicator /CONTRAST
  (deed_of_cov)=Indicator/CONTRAST
  (mn_pay_cashb)=Indicator/CONTRAST
  (tot_pay_cashb)=Indicator/CONTRAST
  (comp_scr)=Indicator
/save=pred
  /CRITERIA = PIN(.05) POUT(.10) ITERATE(20) CUT(.5) .

```

# Logistic Regression

## Notes

	Output Created	30-Sep-2009 09:51:59
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\legacy_analysis_09_anal_mod.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing
	Syntax	LOGISTIC REGRESSION VARIABLES leg_pledge_flag /SELECT = sel_legpled EQ 1 /METHOD = ENTER tit_code mn_pay_cash mn_pay_cashb tot_pay_cash tot_pay_cashb pay_cash box trad_don h2h lottery catalogue deed_of_cov tot_val GiftAidStatus Sex lifetime /CONTRAST (GiftAidStatus) =Indicator /CONTRAST (Sex) =Indicator /CONTRAST (tit_code)=Indicator /CONTRAST (box)=Indicator /CONTRAST (trad_don)=Indicator /CONTRAST (pay_cash)=Indicator /CONTRAST (h2h)=Indicator /CONTRAST (lottery)=Indicator /CONTRAST (catalogue)=Indicator /CONTRAST (deed_of_cov) =Indicator/CONTRAST (mn_pay_cashb) =Indicator/CONTRAST (tot_pay_cashb) =Indicator/CONTRAST (comp_scr)=Indicator /save=pred /CRITERIA = PIN(.05) POUT(.10) ITERATE(20) CUT(.5) .
Resources	Processor Time	0:00:18.891
	Elapsed Time	0:00:23.235
Variables Created or Modified	PRE_1	Predicted probability

C:\wip\clients\charity\legacy 2009\legacy\_analysis\_09\_anal\_mod.sav

### Case Processing Summary

Unweighted Cases <sup>a</sup>		N	Percent
Selected Cases	Included in Analysis	7325	.5
	Missing Cases	0	.0
	Total	7325	.5

a. If weight is in effect, see classification table for the total number of cases.

**Case Processing Summary**

Unweighted Cases <sup>a</sup>	N	Percent
Unselected Cases	1333003	99.5
Total	1340328	100.0

a. If weight is in effect, see classification table for the total number of cases.

**Dependent Variable Encoding**

Original Value	Internal Value
.00	0
1.00	1

**Block 0: Beginning Block**

**Classification Table<sup>d,e</sup>**

			Predicted		
			Selected Cases <sup>a</sup>		
			Legator or pledger flag		Percentage Correct
			.00	1.00	
<b>Observed</b>					
Step 0	Legator or pledger flag	.00	3701	0	100.0
		1.00	3624	0	.0
	Overall Percentage				50.5

a. Selected cases Selection flag for legacy and pledger only model EQ 1

d. Constant is included in the model.

e. The cut value is .500

**Classification Table<sup>d,e</sup>**

			Predicted		
			Unselected Cases <sup>b,,c</sup>		
			Legator or pledger flag		Percentage Correct
			.00	1.00	
<b>Observed</b>					
Step 0	Legator or pledger flag	.00	1329316	0	100.0
		1.00	3676	0	.0
	Overall Percentage				99.7

a. Selected cases Selection flag for legacy and pledger only model EQ 1

b. Unselected cases Selection flag for legacy and pledger only model NE 1

c. Some of the unselected cases are not classified due to either missing values in the independent variables or categorical variables with values out of the range of the selected cases.

d. Constant is included in the model.

e. The cut value is .500

**Variables in the Equation**

	B	S.E.	Wald	df	Sig.	Exp(B)
Step 0 Constant	-.021	.023	.809	1	.368	.979

**Variables not in the Equation<sup>a</sup>**

	Score	df	Sig.
Step 0 Variables tit_code	759.869	6	.000
tit_code(1)	172.643	1	.000
tit_code(2)	64.150	1	.000
tit_code(3)	276.580	1	.000
tit_code(4)	384.019	1	.000
tit_code(5)	47.332	1	.000
tit_code(6)	21.707	1	.000
mn_pay_cash	127.534	1	.000
mn_pay_cashb	1374.012	7	.000
mn_pay_cashb(1)	.979	1	.322
mn_pay_cashb(2)	981.732	1	.000
mn_pay_cashb(3)	30.951	1	.000
mn_pay_cashb(4)	111.939	1	.000
mn_pay_cashb(5)	444.243	1	.000
mn_pay_cashb(6)	149.387	1	.000
mn_pay_cashb(7)	105.452	1	.000
tot_pay_cash	347.709	1	.000
tot_pay_cashb	1032.785	7	.000
tot_pay_cashb(1)	716.509	1	.000
tot_pay_cashb(2)	7.938	1	.005
tot_pay_cashb(3)	1.107	1	.293
tot_pay_cashb(4)	6.930	1	.008
tot_pay_cashb(5)	66.582	1	.000
tot_pay_cashb(6)	115.625	1	.000
tot_pay_cashb(7)	211.433	1	.000
pay_cash(1)	716.509	1	.000
box(1)	52.663	1	.000
trad_don(1)	545.028	1	.000
h2h(1)	230.624	1	.000
lottery(1)	258.755	1	.000
catalogue(1)	425.746	1	.000
deed_of_cov(1)	964.366	1	.000
tot_val	17.841	1	.000
GiftAidStatus(1)	76.240	1	.000
Sex	289.199	4	.000
Sex(1)	5.773	1	.016
Sex(2)	12.960	1	.000
Sex(3)	95.064	1	.000
Sex(4)	218.972	1	.000
lifetime	1261.084	1	.000

a. Residual Chi-Squares are not computed because of redundancies.

## Block 1: Method = Enter

**Omnibus Tests of Model Coefficients**

		Chi-square	df	Sig.
Step 1	Step	4260.564	35	.000
	Block	4260.564	35	.000
	Model	4260.564	35	.000

**Model Summary**

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	5893.233 <sup>a</sup>	.441	.588

a. Estimation terminated at iteration number 20 because maximum iterations has been reached. Final solution cannot be found.

**Classification Table<sup>d</sup>**

Observed			Predicted		
			Selected Cases <sup>a</sup>		
			Legator or pledger flag		Percentage Correct
.00	1.00				
Step 1	Legator or pledger flag	.00	3140	561	84.8
		1.00	678	2946	81.3
	Overall Percentage				83.1

a. Selected cases Selection flag for legacy and pledger only model EQ 1

d. The cut value is .500

**Classification Table<sup>d</sup>**

Observed			Predicted		
			Unselected Cases <sup>b,c</sup>		
			Legator or pledger flag		Percentage Correct
.00	1.00				
Step 1	Legator or pledger flag	.00	1124599	204717	84.6
		1.00	692	2984	81.2
	Overall Percentage				84.6

a. Selected cases Selection flag for legacy and pledger only model EQ 1

b. Unselected cases Selection flag for legacy and pledger only model NE 1

c. Some of the unselected cases are not classified due to either missing values in the independent variables or categorical variables with values out of the range of the selected cases.

d. The cut value is .500

**Variables in the Equation**

	B	S.E.	Wald	df	Sig.	Exp(B)
Step 1 <sup>a</sup>			152.606	6	.000	
tit_code						
tit_code(1)	-.338	.671	.254	1	.615	.713
tit_code(2)	-.304	.553	.301	1	.583	.738
tit_code(3)	-.808	.679	1.414	1	.234	.446
tit_code(4)	.352	.682	.266	1	.606	1.422
tit_code(5)	-.772	.698	1.220	1	.269	.462
tit_code(6)	.283	.667	.180	1	.671	1.327
mn_pay_cash	.005	.003	4.046	1	.044	1.005
mn_pay_cashb			110.001	7	.000	
mn_pay_cashb(1)	-21.589	40192.970	.000	1	1.000	.000
mn_pay_cashb(2)	-1.644	2.488	.437	1	.509	.193
mn_pay_cashb(3)	-1.232	2.478	.247	1	.619	.292
mn_pay_cashb(4)	-.715	2.466	.084	1	.772	.489
mn_pay_cashb(5)	-.281	2.436	.013	1	.908	.755
mn_pay_cashb(6)	.122	2.373	.003	1	.959	1.130
mn_pay_cashb(7)	.110	2.233	.002	1	.961	1.116
tot_pay_cash	.011	.012	.774	1	.379	1.011
tot_pay_cashb			69.313	7	.000	
tot_pay_cashb(1)	-2.442	.452	29.158	1	.000	.087
tot_pay_cashb(2)	-2.033	.426	22.761	1	.000	.131
tot_pay_cashb(3)	-1.862	.419	19.791	1	.000	.155
tot_pay_cashb(4)	-1.560	.414	14.228	1	.000	.210
tot_pay_cashb(5)	-1.222	.394	9.639	1	.002	.295
tot_pay_cashb(6)	-1.074	.353	9.253	1	.002	.342
tot_pay_cashb(7)	-.609	.293	4.318	1	.038	.544
box(1)	-.171	.146	1.387	1	.239	.842
trad_don(1)	-.479	.107	20.002	1	.000	.620
h2h(1)	1.358	.154	77.308	1	.000	3.888
lottery(1)	1.742	.107	265.177	1	.000	5.706
catalogue(1)	-.199	.086	5.391	1	.020	.819
deed_of_cov(1)	-2.475	.140	313.641	1	.000	.084
tot_val	.000	.000	2.752	1	.097	1.000
GiftAidStatus(1)	.534	.090	35.432	1	.000	1.706
Sex			15.499	4	.004	
Sex(1)	.278	.600	.215	1	.643	1.321
Sex(2)	1.426	.573	6.188	1	.013	4.160
Sex(3)	1.275	.498	6.568	1	.010	3.580
Sex(4)	-29.638	1566.892	.000	1	.985	.000
lifetime	.005	.001	61.034	1	.000	1.005
Constant	1.139	2.618	.189	1	.664	3.123

a. Variable(s) entered on step 1: tit\_code, mn\_pay\_cash, mn\_pay\_cashb, tot\_pay\_cash, tot\_pay\_cashb, box, trad\_don, h2h, lottery, catalogue, deed\_of\_cov, tot\_val, GiftAidStatus, Sex, lifetime.

get file='C:\wip\clients\charity\legacy 2009\model\_data09.sav'.

\* sort the data into model score order.

```

sort cases by legpled_scr09 (d).
* create the 20 and 100 ntile values based on the model score.
compute ntile100_09legpled=trunc((\$casenum-1)*100/1340328)+1.
compute ntile20_09legpled=trunc((\$casenum-1)*20/1340328)+1.
* check that the ntiles are equally sized.
fre var ntile20_09legpled ntile100_09legpled.

```

## Frequencies

### Notes

	Output Created	30-Sep-2009 09:58:06
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\model_data09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
	Syntax	fre var ntile20_09legpled ntile100_09legpled.
Resources	Processor Time	0:00:01.890
	Elapsed Time	0:00:01.907

C:\wip\clients\charity\legacy 2009\model\_data09.sav

### Statistics

		ntile20_09legpled	ntile100_09legpled
N	Valid	1340328	1340328
	Missing	0	0

## Frequency Table

### ntile20\_09legpled

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	67017	5.0	5.0	5.0
	2.00	67016	5.0	5.0	10.0
	3.00	67017	5.0	5.0	15.0
	4.00	67016	5.0	5.0	20.0
	5.00	67016	5.0	5.0	25.0
	6.00	67017	5.0	5.0	30.0
	7.00	67016	5.0	5.0	35.0
	8.00	67017	5.0	5.0	40.0

**ntile20\_09legpled**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	9.00	67016	5.0	5.0	45.0
	10.00	67016	5.0	5.0	50.0
	11.00	67017	5.0	5.0	55.0
	12.00	67016	5.0	5.0	60.0
	13.00	67017	5.0	5.0	65.0
	14.00	67016	5.0	5.0	70.0
	15.00	67016	5.0	5.0	75.0
	16.00	67017	5.0	5.0	80.0
	17.00	67016	5.0	5.0	85.0
	18.00	67017	5.0	5.0	90.0
	19.00	67016	5.0	5.0	95.0
	20.00	67016	5.0	5.0	100.0
Total		1340328	100.0	100.0	

**ntile100\_09legpled**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	13404	1.0	1.0	1.0
	2.00	13403	1.0	1.0	2.0
	3.00	13403	1.0	1.0	3.0
	4.00	13404	1.0	1.0	4.0
	5.00	13403	1.0	1.0	5.0
	6.00	13403	1.0	1.0	6.0
	7.00	13403	1.0	1.0	7.0
	8.00	13404	1.0	1.0	8.0
	9.00	13403	1.0	1.0	9.0
	10.00	13403	1.0	1.0	10.0
	11.00	13404	1.0	1.0	11.0
	12.00	13403	1.0	1.0	12.0
	13.00	13403	1.0	1.0	13.0
	14.00	13403	1.0	1.0	14.0
	15.00	13404	1.0	1.0	15.0
	16.00	13403	1.0	1.0	16.0
	17.00	13403	1.0	1.0	17.0
	18.00	13404	1.0	1.0	18.0
	19.00	13403	1.0	1.0	19.0
	20.00	13403	1.0	1.0	20.0
	21.00	13403	1.0	1.0	21.0
	22.00	13404	1.0	1.0	22.0
	23.00	13403	1.0	1.0	23.0
	24.00	13403	1.0	1.0	24.0
	25.00	13403	1.0	1.0	25.0
	26.00	13404	1.0	1.0	26.0
	27.00	13403	1.0	1.0	27.0

ntile100\_09legpled

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	28.00	13403	1.0	1.0	28.0
	29.00	13404	1.0	1.0	29.0
	30.00	13403	1.0	1.0	30.0
	31.00	13403	1.0	1.0	31.0
	32.00	13403	1.0	1.0	32.0
	33.00	13404	1.0	1.0	33.0
	34.00	13403	1.0	1.0	34.0
	35.00	13403	1.0	1.0	35.0
	36.00	13404	1.0	1.0	36.0
	37.00	13403	1.0	1.0	37.0
	38.00	13403	1.0	1.0	38.0
	39.00	13403	1.0	1.0	39.0
	40.00	13404	1.0	1.0	40.0
	41.00	13403	1.0	1.0	41.0
	42.00	13403	1.0	1.0	42.0
	43.00	13404	1.0	1.0	43.0
	44.00	13403	1.0	1.0	44.0
	45.00	13403	1.0	1.0	45.0
	46.00	13403	1.0	1.0	46.0
	47.00	13404	1.0	1.0	47.0
	48.00	13403	1.0	1.0	48.0
	49.00	13403	1.0	1.0	49.0
	50.00	13403	1.0	1.0	50.0
	51.00	13404	1.0	1.0	51.0
	52.00	13403	1.0	1.0	52.0
	53.00	13403	1.0	1.0	53.0
	54.00	13404	1.0	1.0	54.0
	55.00	13403	1.0	1.0	55.0
	56.00	13403	1.0	1.0	56.0
	57.00	13403	1.0	1.0	57.0
	58.00	13404	1.0	1.0	58.0
	59.00	13403	1.0	1.0	59.0
	60.00	13403	1.0	1.0	60.0
	61.00	13404	1.0	1.0	61.0
	62.00	13403	1.0	1.0	62.0
	63.00	13403	1.0	1.0	63.0
	64.00	13403	1.0	1.0	64.0
	65.00	13404	1.0	1.0	65.0
	66.00	13403	1.0	1.0	66.0
	67.00	13403	1.0	1.0	67.0
	68.00	13404	1.0	1.0	68.0
	69.00	13403	1.0	1.0	69.0
	70.00	13403	1.0	1.0	70.0
	71.00	13403	1.0	1.0	71.0

ntile100\_09legpled

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	72.00	13404	1.0	1.0	72.0
	73.00	13403	1.0	1.0	73.0
	74.00	13403	1.0	1.0	74.0
	75.00	13403	1.0	1.0	75.0
	76.00	13404	1.0	1.0	76.0
	77.00	13403	1.0	1.0	77.0
	78.00	13403	1.0	1.0	78.0
	79.00	13404	1.0	1.0	79.0
	80.00	13403	1.0	1.0	80.0
	81.00	13403	1.0	1.0	81.0
	82.00	13403	1.0	1.0	82.0
	83.00	13404	1.0	1.0	83.0
	84.00	13403	1.0	1.0	84.0
	85.00	13403	1.0	1.0	85.0
	86.00	13404	1.0	1.0	86.0
	87.00	13403	1.0	1.0	87.0
	88.00	13403	1.0	1.0	88.0
	89.00	13403	1.0	1.0	89.0
	90.00	13404	1.0	1.0	90.0
	91.00	13403	1.0	1.0	91.0
	92.00	13403	1.0	1.0	92.0
	93.00	13404	1.0	1.0	93.0
	94.00	13403	1.0	1.0	94.0
	95.00	13403	1.0	1.0	95.0
	96.00	13403	1.0	1.0	96.0
	97.00	13404	1.0	1.0	97.0
	98.00	13403	1.0	1.0	98.0
	99.00	13403	1.0	1.0	99.0
	100.00	13403	1.0	1.0	100.0
Total		1340328	100.0	100.0	

\* get data back into supporter urn order ready for output.

sort cases by supporter.

\* examine legators and pledgers by the ntile values.

means tables= leg\_leg leg\_pled by ntile20\_09legpled

/cells=sum.

## Means

### Notes

Output Created	30-Sep-2009 10:00:11
Comments	

**Notes**

Input	Data	C:\wip\clients\charity\legacy 2009\model_data09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
	Syntax	means tables= leg_leg leg_pled by ntile20_09legpled /cells=sum.
Resources	Processor Time	0:00:03.797
	Elapsed Time	0:00:03.859

C:\wip\clients\charity\legacy 2009\model\_data09.sav

**Case Processing Summary**

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Legator flag * ntile20_09legpled	1340328	100.0%	0	.0%	1340328	100.0%
Pledger flag * ntile20_09legpled	1340328	100.0%	0	.0%	1340328	100.0%

**Report**

Sum

ntile20_09legpled	Legator flag	Pledger flag
1.00	2481.00	1409.00
2.00	1131.00	341.00
3.00	517.00	203.00
4.00	280.00	115.00
5.00	149.00	55.00
6.00	110.00	38.00
7.00	79.00	41.00
8.00	90.00	34.00
9.00	60.00	21.00
10.00	67.00	16.00
11.00	38.00	28.00
12.00	33.00	16.00
13.00	53.00	14.00
14.00	32.00	23.00
15.00	8.00	12.00

## Report

Sum		
ntile20_09legpled	Legator flag	Pledger flag
16.00	4.00	20.00
17.00	10.00	9.00
18.00	11.00	3.00
19.00	7.00	4.00
20.00	.00	.00
Total	5160.00	2402.00

means tables= leg\_leg leg\_pled by ntile100\_09legpled  
/cells=sum.

## Means

### Notes

	Output Created	30-Sep-2009 10:00:15
	Comments	
Input	Data	C:\wip\clients\charity\legacy 2009\model_data09.sav
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	1340328
Missing Value Handling	Definition of Missing	For each dependent variable in a table, user-defined missing values for the dependent and all grouping variables are treated as missing.
	Cases Used	Cases used for each table have no missing values in any independent variable, and not all dependent variables have missing values.
	Syntax	means tables= leg_leg leg_pled by ntile100_09legpled /cells=sum.
Resources	Processor Time	0:00:03.875
	Elapsed Time	0:00:03.875

C:\wip\clients\charity\legacy 2009\model\_data09.sav

### Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Legator flag * ntile100_09legpled	1340328	100.0%	0	.0%	1340328	100.0%
Pledger flag * ntile100_09legpled	1340328	100.0%	0	.0%	1340328	100.0%

**Report**

Sum

ntile100 09legpled	Legator flag	Pledger flag
1.00	751.00	577.00
2.00	567.00	332.00
3.00	467.00	228.00
4.00	370.00	140.00
5.00	326.00	132.00
6.00	261.00	95.00
7.00	242.00	80.00
8.00	250.00	73.00
9.00	197.00	40.00
10.00	181.00	53.00
11.00	149.00	41.00
12.00	105.00	55.00
13.00	104.00	44.00
14.00	87.00	27.00
15.00	72.00	36.00
16.00	82.00	34.00
17.00	56.00	29.00
18.00	48.00	23.00
19.00	53.00	15.00
20.00	41.00	14.00
21.00	47.00	14.00
22.00	29.00	17.00
23.00	34.00	9.00
24.00	24.00	7.00
25.00	15.00	8.00
26.00	28.00	7.00
27.00	21.00	12.00
28.00	22.00	3.00
29.00	15.00	11.00
30.00	24.00	5.00
31.00	20.00	9.00
32.00	12.00	3.00
33.00	9.00	7.00
34.00	8.00	10.00
35.00	30.00	12.00
36.00	15.00	11.00
37.00	26.00	10.00
38.00	23.00	3.00
39.00	19.00	8.00
40.00	7.00	2.00
41.00	11.00	2.00
42.00	15.00	.00
43.00	11.00	7.00
44.00	4.00	.00

**Report**

Sum

ntile100 09legpled	Legator flag	Pledger flag
45.00	19.00	12.00
46.00	5.00	2.00
47.00	12.00	1.00
48.00	13.00	7.00
49.00	21.00	3.00
50.00	16.00	3.00
51.00	14.00	3.00
52.00	7.00	5.00
53.00	12.00	9.00
54.00	.00	8.00
55.00	5.00	3.00
56.00	5.00	5.00
57.00	9.00	3.00
58.00	8.00	2.00
59.00	6.00	4.00
60.00	5.00	2.00
61.00	7.00	1.00
62.00	14.00	1.00
63.00	9.00	2.00
64.00	15.00	5.00
65.00	8.00	5.00
66.00	7.00	4.00
67.00	6.00	5.00
68.00	3.00	2.00
69.00	9.00	4.00
70.00	7.00	8.00
71.00	3.00	9.00
72.00	2.00	1.00
73.00	1.00	.00
74.00	1.00	2.00
75.00	1.00	.00
76.00	1.00	7.00
77.00	.00	3.00
78.00	.00	4.00
79.00	1.00	3.00
80.00	2.00	3.00
81.00	.00	.00
82.00	2.00	4.00
83.00	6.00	2.00
84.00	2.00	1.00
85.00	.00	2.00
86.00	1.00	.00
87.00	.00	.00
88.00	5.00	.00

### Report

Sum

ntile100_09legpled	Legator flag	Pledger flag
89.00	4.00	2.00
90.00	1.00	1.00
91.00	.00	.00
92.00	1.00	1.00
93.00	6.00	.00
94.00	.00	2.00
95.00	.00	1.00
96.00	.00	.00
97.00	.00	.00
98.00	.00	.00
99.00	.00	.00
100.00	.00	.00
Total	5160.00	2402.00

```
compute legpled_mod=legpled_scr09.  
compute ntile100_lp=ntile100_09legpled.  
execute.  
* write data to disk.  
write outfile='C:\wip\clients\charity\legacy 2009\model_2009_score.csv'  
  /1 supporter ',' legpled_mod ',' ntile100_lp.  
execute.
```