

T/MAKER

Vol. 1 No. 4, July, 1982

USERS' GROUP

NEWSLETTER

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Checking account system

Probably the first application that come to mind when first acquiring a system like T/MAKER would be to balance a checking account. Computing the balance, however, is only the beginning. Additional desirable requirements such as how much was spent on food, utilities, taxes, etc. are soon to follow.

Presented here is one of many ways a checking account system can be designed using T/MAKER. The system starts by initializing a file for a one year cycle as in the following.

ex				999,999.99	999,999.99	999,999.99
zv						
ac1				-	+	fta+=sta
rc2						fta
check	#	mm/dd type	description	Debit	Credit	Balance
			-----			-----
			January 1982			
+		01/01	Balance from previous year			
=		01/99	Month totals			
			February 1982			
+		02/01	Balance from last month			
=		02/99	Month totals			
			March 1982			
+		03/01	Balance from last month			
=		03/99	Month totals			
			April 1982			
+		04/01	Balance from last month			
=		04/99	Month totals			
			May 1982			
+		05/01	Balance from last month			
=		05/99	Month totals			
			June 1982			
+		06/01	Balance from last month			
=		06/99	Month totals			
			July 1982			
+		07/01	Balance from last month			
=		07/99	Month totals			
			August 1982			
+		08/01	Balance from last month			
=		08/99	Month totals			
			September 1982			
+		09/01	Balance from last month			
=		09/99	Month totals			
			October 1982			
+		10/01	Balance from last month			
=		10/99	Month totals			
			November 1982			
+		11/01	Balance from last month			
=		11/99	Month totals			
			December 1982			
+		12/01	Balance from last month			
=		12/99	Month totals			

Once a file is initialized as in the above, the only remaining task before proceeding with transactions entry is to determine standard codes for the expected types of transactions. The following recommended list of codes may be used as an example.

food = Food	loan = Loan payment
med = Medical	mort = Mortgage payment
tax = Tax	depo = Deposit
cash = Cash	cc = Credit card payment
util = Utility	car = Car expense
tel = Telephone	cont = Contribution
rent = Rent	misc = Miscellaneous

To enter transactions into the file, the following steps may be followed.

1 - GET ACC1982

ACC1982 is assumed to be the name of the initialized file

2 - FIND mm/99

mm is the month for which transactions are to be entered. This step causes the TOTAL line for the desired month to be displayed on top of the screen.

3 - EDIT

4 - cntrl R (line insert)

This step inserts a blank line before the TOTAL line.

5 - Enter the transaction as in the following

- a- a (+) sign in the first column
- b- check or transaction number, if any
- c- check or transaction date (mm/dd with leading zeros)
- d- check or transaction type (see codes above)
- e- check or transaction description
- f- amount (expenses under debit, deposits under credit)

Repeate steps 4 and 5 as needed and then exit the edit when finished with transaction entry (see example on next page).

6 - 1/1

Position to the top of the file.

7 - COMPUTE

Compute new balance.

8 - SAVE

Save the file

ex				999,999.99	999,999.99	999,999.99
zv				-	+	fta+sta
uc1						fta
rc2						
	check					
	# mm/dd type		description	Debit	Credit	Balance
	*****		January 1982 *****			
+	01/01 ****		Balance from 1981		2,934.65	2,934.65
+	828 01/05 MORT		MARYLAND FEDERAL S&L	916.75		2,017.90
+	829 01/05 LOAN		UNION TRUST BANK	28.00		1,989.90
+	830 01/05 CC		AMERICAN EXPRESS	13.83		1,976.07
+	831 01/05 TEL		C&P TELEPHONE	44.94		1,931.13
+	834 01/05 CC		MOBIL	24.16		1,906.97
+	01/06 CASH		MONEY EXCHANGE	50.00		1,856.97
+	832 01/07 MED		DR KORENGOLD	7.00		1,849.97
+	835 01/11 CAR		MOTOR VEHICAL ADMIN	6.00		1,843.97
+	01/21 CASH		MONEY EXCHANGE	100.00		1,743.97
+	01/28 DEPO		SALARY FEB 1982		2,191.16	3,935.13
+	683 01/31 MORT		MARYLAND FEDERAL S&L	916.75		3,018.38
+	686 01/31 TEL		C&P TELEPHONE	107.11		2,911.27
+	687 01/31 UTIL		VEPCO	202.98		2,708.29
+	690 01/31 LOAN		SYRACUSE SAVINGS	89.95		2,618.34
+	678 01/31 MISC		H D DELLINGER	14.00		2,604.34
+	680 01/31 UTIL		CITY OF FALLS CHURCH	60.98		2,543.36
=	01/99 ****		Month totals	2,582.45	5,125.81	2,543.36
	*****		February 1982 *****			
+	02/01 ****		Balance from last month			2,543.36
+	677 02/01 RENT		RAY SHENNGLT	620.00		1,923.36
+	836 02/02 FOOD		GIANT FOOD	29.63		1,893.73
+	02/02 CASH		MONEY EXCHANGE	150.00		1,743.73
+	02/04 DEPO		DIVIDENDS ACCOUNT-A		587.50	2,331.23
+	838 02/06 FOOD		GIANT FOOD	10.62		2,320.61
+	02/10 CASH		MONEY EXCHANGE	100.00		2,220.61
+	842 02/11 FOOD		GIANT FOOD	60.45		2,160.16
+	839 02/11 MED		DR AUSTIN WILLIAMS	75.00		2,085.16
+	844 02/22 MED		OTOLARYNGOLOGY ASSO	110.00		1,975.16
+	846 02/22 LOAN		UNION TRUST BANK	595.65		1,379.51
+	02/24 DEPO		SALARY MARCH 1982		2,191.17	3,570.68
+	847 02/27 FOOD		GIANT FOOD	84.10		3,486.58
=	02/99 ****		Month totals	1,835.45	2,778.67	3,486.58
	*****		March 1982 *****			
+	03/01 ****		Balance from last month			3,486.58
=	03/99 ****		Month totals			3,486.58
	*****		April 1982 *****			
+	04/01 ****		Balance from last month			3,486.58
=	04/99 ****		Month totals			3,486.58
	*****		May 1982 *****			
+	05/01 ****		Balance from last month			3,486.58
=	05/99 ****		Month totals			3,486.58
	*****		June 1982 *****			
+	06/01 ****		Balance from last month			3,486.58
=	06/99 ****		Month totals			3,486.58
	*****		July 1982 *****			
+	07/01 ****		Balance from last month			3,486.58
=	07/99 ****		Month totals			3,486.58
	*****		August 1982 *****			
+	08/01 ****		Balance from last month			3,486.58
=	08/99 ****		Month totals			3,486.58
	*****		September 1982 *****			
+	09/01 ****		Balance from last month			3,486.58
=	09/99 ****		Month totals			3,486.58
	*****		October 1982 *****			
+	10/01 ****		Balance from last month			3,486.58
=	10/99 ****		Month totals			3,486.58
	*****		November 1982 *****			
+	11/01 ****		Balance from last month			3,486.58
=	11/99 ****		Month totals			3,486.58
	*****		December 1982 *****			
+	12/01 ****		Balance from last month			3,486.58
=	12/99 ****		Month totals			3,486.58

Several interesting summary reports now may be produced. The following are examples of some.

A- To produce a report showing the transactions sorted by type, enter the following commands.

```
GET ACC1982
FIND January
DROP ****
SORT FULL 19 22
CLEAN
PRINT SKIP NONSTOP O O
```

check #	mm/dd type	description	Debit	Credit	Balance
835	01/11	CAR MOTOR VEHICAL ADMIN	6.00		1,843.97
	01/06	CASH MONEY EXCHANGE	50.00		1,856.97
	01/21	CASH MONEY EXCHANGE	100.00		1,743.97
	02/02	CASH MONEY EXCHANGE	150.00		1,743.73
	02/10	CASH MONEY EXCHANGE	100.00		2,220.61
830	01/05	CC AMERICAN EXPRESS	13.83		1,976.07
834	01/05	CC MOBIL	24.16		1,906.97
	01/28	DEPO SALARY FEB 1982		2,191.16	3,935.13
	02/04	DEPO DIVIDENDS ACCOUNT-A		587.50	2,331.23
	02/24	DEPO SALARY MARCH 1982		2,191.17	3,570.68
836	02/02	FOOD GIANT FOOD	29.63		1,893.73
838	02/06	FOOD GIANT FOOD	10.62		2,320.61
842	02/11	FOOD GIANT FOOD	60.45		2,160.16
847	02/27	FOOD GIANT FOOD	84.10		3,486.58
829	01/05	LOAN UNION TRUST BANK	28.00		1,989.90
690	01/31	LOAN SYRACUSE SAVINGS	89.95		2,618.34
846	02/22	LOAN UNION TRUST BANK	595.65		1,379.51
832	01/07	MED DR KORENGOLD	7.00		1,849.97
839	02/11	MED DR AUSTIN WILLIAMS	75.00		2,085.16
844	02/22	MED OTOLARYNGOLOGY ASSO	110.00		1,975.16
678	01/31	MISC H D DELLINGER	14.00		2,604.34
828	01/05	MORT MARYLAND FEDERAL S&L	916.75		2,017.90
683	01/31	MORT MARYLAND FEDERAL S&L	916.75		3,018.38
677	02/01	RENT RAY SHENNOLT	620.00		1,923.36
831	01/05	TEL C&P TELEPHONE	44.94		1,931.13
686	01/31	TEL C&P TELEPHONE	107.11		2,911.27
687	01/31	UTIL VEPCO	202.98		2,708.29
680	01/31	UTIL CITY OF FALLS CHURCH	60.98		2,543.36

B- To produce a summary report showing the year-to-date expenditures and deposits by type, enter the following.

```
GET ACC1982
DROP ****
TALLY 19 22 SUM 51 60 62 71 0
PRINT SKIP NONSTOP 0 0
```

MED =	3	192	0
CAR =	1	6	0
TEL =	2	152.05	0
CASH =	4	400	0
DEPO =	3	0	4969.83
FOOD =	4	184.8	0
LOAN =	3	713.6	0
MISC =	1	14	0
RENT =	1	620	0
UTIL =	2	263.96	0
MORT =	2	1833.5	0
CC =	2	37.99	0

C- To produce the report in C above, but by type within each month, enter the following.

```
GET ACC1982
DROP ****
TALLY 13 14 19 22 SUM 51 60 62 71 0
PRINT SKIP NONSTOP 0 0
```

01:MED =	1	7	0
01:CAR =	1	6	0
02:MED =	2	185	0
01:TEL =	2	152.05	0
01:CASH =	2	150	0
02:CASH =	2	250	0
01:DEPO =	1	0	2191.16
02:FOOD =	4	184.8	0
02:DEPO =	2	0	2778.67
01:LOAN =	2	117.95	0
02:LOAN =	1	595.65	0
01:MISC =	1	14	0
02:RENT =	1	620	0
01:UTIL =	2	263.96	0
01:MORT =	2	1833.5	0
01:CC =	2	37.99	0

A membership system using T/MAKER

A basic membership file consists of three types of data, a) Name and address, b) Member's characteristics, and c) Accounting information. With the help of T/MAKER a membership system can be setup fairly easy and in a few minutes. In this article we will explain how the T/MAKER users group membership system is setup and demonstrate some of its functions.

The T/MAKER membership file consists of the following information:

Data item	Line#	Column Position	Format
A- Name and address data			
1. Control character (!)	1	1 - 1	
2. Member name	1	2 - 40	
3. Company name	2	1 - 40	
4. Street address or P.O. Box	3	1 - 40	
5. City	4	1 - 17	
6. State	4	18 - 34	
7. Zip code	4	35 - 40	
8. Country	5	1 - 40	
B- Characteristics			
1. Starting date	1	42 - 49	yy/mm/dd
2. Expiration date	1	51 - 58	yy/mm/dd
3. State/country code	1	60 - 63	
4. Interest codes 1-3	1	65 - 67	
			1=BUSINESS/ACCOUNTING
			2=PLANNING & FORECASTING
			3=FINANCIAL MODELING/ANALYSIS
			4=STATISTICS
			5=WORD/TEXT PROCESSING
	6=ALL AREAS		
5. Computer	1	69 - 76	
6. Operating system	1	78 - 81	
7. T/MAKER version	1	83 - 85	
C- Accounting			
1. Membership fee	1	87 - 91	numeric
2. Amount recieved	1	93 - 97	numeric
3. Balance	1	99 -103	numeric

For each T/MUG member, the above information is entered into the T/MUG membership file as in the following arrangement.

```

0          4 4      4 5      5 6 6 6 6      7 7 8 8 8 8 9 9 9 9 0
1.....0 2.....9 1.....8 0..3 5.7 9.....6 8..1 3.5 7...1 3...7 9...3
^
!Member name..... yy/mm/dd yy/mm/dd xxxx ### xxxxxxxx xxxx 8.8 $.$. $.$. $.$.
Company name.....
Street address.....
City..... State..... Zip code
Country name.....

```

NOTE: The (^) character is used to advance to the top of the gum label when printing mailing labels.

The (!) character is used to identify and retain the lines containing the characteristics and accounting information when performing analysis on the file. The file is scanned and all occurrences of (!) are deleted prior to printing mailing labels.

Below is a sample listing of the information stored in the membership file. This listing will be used to demonstrate some of the commonly performed functions.

^										
!PAUL M FISHER	82/01/12	83/01/12	TX	13	XEROX	CPM	2.5	9.00	9.00	0.00
COMPLETE FLORAL SERVICE										
2345 OLD DOMINION RD										
HUSTON TEXAS										
40084										
^										
!FRANCIS D HARDING	82/01/20	83/01/20	AL	3	TRS/80	CPM	2.6	9.00	9.00	0.00
BEL PRE GLASS WORK										
1050 FIRST STREET										
ROCKVILLE ALABAMA										
75004										
^										
!L J HENDERSON	82/04/02	83/04/02	MD	16	TRS/80	CPM	2.6	9.00	9.00	0.00
BUSINESS MANAGEMENT										
4563 TERRACE HILL										
SILVER SPRING MARYLAND										
54661										
^										
!HENRY J KNORR	82/04/02	83/04/02	MD	3	HORIZON	CPM	2.5	9.00	0.00	9.00
P. O. BOX 254										
ROCKVILLE MD										
50345										
^										
!W M MOORE	82/03/15	83/03/15	SWIT	15	MSAI	CPM	2.6	9.00	9.00	0.00
INFOTECH A. G.										
BERLOUTH 12 POSTFACH 26										
VH-5235 GENEIVA										
SWITZERLAND										
^										
!JACK-MARIE CRUSANT	82/03/12	83/03/12	CANA	3	ALTOS	CPM	2.5	9.00	9.00	0.00
LES SYSTEM INFO										
4562 VANDERVILLE ST.										
MONTRIAL CANADA										
H46R32										
^										
!LEE DAVID	82/05/10	83/05/10	PA	126	TRS/80	CPM	2.5	9.00	9.00	0.00
PANIC DELIVERIES										
557 EAST ELMER STREET										
HARISBERG PA										
34005										
^										
!ERNEST MORELAND	82/05/11	83/05/11	CA	3	HP/125	CPM	2.6	9.00	0.00	9.00
MEDICAL SUPPLIES & EQUIPMENT										
56 CAROLINA COURT										
SAN FRANCISCO CALIFORNIA										
92334										
^										
!PATRICIA OSBORNE	82/05/11	83/05/11	NY	6	HORIZON	CPM	2.6	9.00	9.00	0.00
NORTH AMERICA BUSINESS MACHINES										
45b 35TH STREET N.W.										
NEW YORK NY										
13165										
^										
!JAMES G MANN	82/05/11	83/05/11	NY	6	HORIZON	CPM	2.5	9.00	9.00	0.00
COMMERCIAL CLEANING CONTRACTORS										
2354 DUNBAR LANE										
NEW YORK NY										
13165										
^										
!H. D. FITZGERALD	82/05/11	83/05/11	ENGL	13	XEROX	CPM	2.6	9.00	0.00	9.00
MINI TECHNICAL SERVICE										
545 EAST BRIDGE STREET										
OXFORD, ENGLAND										
022 34R										

PRODUCING MAILING LABELS

1- Mount the gum labels on the printer and position to the top of the first gum label.

2- GET TMUGFILE

TMUGFILE is the name of the T/MUG membership file as shown in the above sample listing.

3- REPLACE ! ''

This step removes the control character (!) from the file.

4- ARRANGE 1 40

This step removes the characteristics and accounting information from the file and retains the name and address information only.

5- PRINT SKIP PAGESIZE 9 NONSTOP 0 0

This step sets the page size to 9 lines (in accordance with the size of gum label being used) and prints labels for all addresses in the file.

0	PAUL M FISHER	0
0	COMPLETE FLORAL SERVICE	0
0	2345 OLD DOMINION RD	0
0	HUSTON TEXAS 40084	0
0		0
0	FRANCIS D HARDING	0
0	BEL PRE GLASS WORK	0
0	1050 FIRST STREET	0
0	ROCKVILLE ALABAMA 75004	0
0		0
0	L J HENDERSON	0
0	BUSINESS MANAGEMENT	0
0	4563 TERACE HILL	0
0	SILVER SPRING MARYLAND 54661	0
0		0
0	HENRY J KNORR	0
0	P. O. BOX 254	0
0	ROCKVILLE MD 50345	0
0		0
0	W M MOORE	0
0	INFOTECH A. G.	0
0	BERLOUTH 12 POSTFACH 26	0
0	VH-5235 GENEVA	0
0	SWITZERLAND	0
0		0
0	JACK-MARIE CRUSANT	0
0	LES SYSTEM INFO	0
0	4562 VANNEVILLE ST.	0

ANALYZING MEMBERSHIP CHARACTERISTICS

1- GET TMUGFILE

2- KEEP !

Remove from the file all lines that do not contain the character (!).

3- ARRANGE 1 1 200 205 2 103 0

Rearrange the file by:

- . placing the first character first (1-1 which is !)
- . followed by characters in columns 200-205 (6 blanks)
- . followed by characters in columns 2-103 (all data on line 1)

This actually amounts to shifting the record 7 positions to the left with the first position being a (!) sign.

4- REPLACE ! +

Steps 2 through 4 result in the following:

+	PAUL M FISHER	82/01/12	83/01/12	TX	13	XEROX	CPM	2.5	9.00	9.00	0.00
+	FRANCIS D HARDING	82/01/20	83/01/20	AL	3	TRS/80	CPM	2.6	9.00	9.00	0.00
+	L J HENDERSON	82/04/02	83/04/02	MD	16	TRS/80	CPM	2.6	9.00	9.00	0.00
+	HENRY J KNORR	82/04/02	83/04/02	MD	3	HORIZON	CPM	2.5	9.00	0.00	9.00
+	W M MOORE	82/03/15	83/03/15	SWIT	15	INSAI	CPM	2.6	9.00	9.00	0.00
+	JACK-MARIE CRUSANT	82/03/12	83/03/12	CANA	3	ALTOS	CPM	2.5	9.00	9.00	0.00
+	LEE DAVID	82/05/10	83/05/10	PA	126	TRS/80	CPM	2.5	9.00	9.00	0.00
+	ERNEST MORELAND	82/05/11	83/05/11	CA	3	HP/125	CPM	2.6	9.00	0.00	9.00
+	PATRECIA OSBORNE	82/05/11	83/05/11	NY	6	HORIZON	CPM	2.6	9.00	9.00	0.00
+	JAMES G MANN	82/05/11	83/05/11	NY	6	HORIZON	CPM	2.5	9.00	9.00	0.00
+	H. D. FITZGEROLD	82/05/11	83/05/11	ENGL	13	XEROX	CPM	2.6	9.00	0.00	9.00

5- TALLY 57 61 0

Distribution of members by expiration date.

83/01 =	2
83/03 =	2
83/04 =	2
83/05 =	5

TALLY 66 69 0

Distribution of members by country or state

AL =	1
MD =	2
PA =	1
NY =	2
TX =	1
CANA =	1
ENGL =	1
SWIT =	1
CA =	1

TALLY 71 71 0 TALLY 72 72 0 TALLY 73 73 0

Distribution of members by first, second, and third areas of interest.

1 =	5	2 =	6	6 =	10
3 =	4	3 =	1	6 =	1
6 =	2	5 =	2		
		6 =	1		

TALLY 75 82 0

Distribution of members by type computer.

HP/125	=	1
TRS/80	=	3
IMSAI	=	1
ALTOS	=	1
XEROX	=	2
HORIZON	=	3

TALLY 89 91 0

Distribution of members by T/MAKER version.

2.5	=	5
2.6	=	6

TALLY 66 69 75 83 0

Distribution of members by type of computer within country or state.

TX :XEROX	=	1
CANA:ALTOS	=	1
MD :HORIZON	=	1
SWIT:IMSAI	=	1
ENGL:XEROX	=	1
CA :HP/125	=	1
NY :HORIZON	=	2
AL :TRS/80	=	1
MD :TRS/80	=	1
PA :TRS/80	=	1

ACCOUNTING SUMMARIES AND REPORTS

1- GET TMUGFILE

2- KEEP !

Remove from file all lines that do not contain the character (!).

3- ARRANGE 1 1 200 205 2 58 87 103 0

Rearrange the file by:

- . placing the first character first 1-1 (the character !)
- . followed by the characters in columns 200-205 (blanks)
- . followed by the characters in columns 2-58 (name & dates)
- . followed by the characters in columns 87-103 (accounting info.)

4- REPLACE ! +

Replace all occurrences of the character (!) by (+)

+	PAUL M FISHER	82/01/12	83/01/12	9.00	9.00	0.00
+	FRANCIS D HARDING	82/01/20	83/01/20	9.00	9.00	0.00
+	L J HENDERSON	82/04/02	83/04/02	9.00	9.00	0.00
+	HENRY J KNORR	82/04/02	83/04/02	9.00	0.00	9.00
+	W M MOORE	82/03/15	83/03/15	9.00	9.00	0.00
+	JACK-MARIE CRUSANT	82/03/12	83/03/12	9.00	9.00	0.00
+	LEE DAVID	82/05/10	83/05/10	9.00	9.00	0.00
+	ERNEST MORELAND	82/05/11	83/05/11	9.00	0.00	9.00
+	PATRECIA OSBORNE	82/05/11	83/05/11	9.00	9.00	0.00
+	JAMES B MANN	82/05/11	83/05/11	9.00	9.00	0.00
+	H. D. FITZGEROLD	82/05/11	83/05/11	9.00	0.00	9.00

5- TALLY 57 61 SUM 71 75 78 81 0

Produce a summary report of total dollars recieved (column 71-75) and total outstanding balance (columns 78-81) by expiration year and month.

83/01 =	2	18	0
83/03 =	2	18	0
83/04 =	2	9	9
83/05 =	5	27	18

ANSWERS

To: Thomas Callahan

As you pointed out, T/Maker standardly calculates a percent change in going from X to Y as- $[(Y - X) / X] * 100$. What you would prefer appears to be $[(Y - X) / \text{Absolute } (X)] * 100$ so that a change going up is always positive and a change going down is always negative regardless of the sign of X. Here are some possibilities:

	1980	1981	% Change
ex	999,999	999,999	999.99
ac1	+		abs
ac2	-	+	/%
+	-100	-50	50.00

	A	B	C
ex	999,999	999,999	999,999
+ - 1980	-100	100	-100
+ 1981	-50	80	-123
abs / Temporary	100	100	100
% % Change	50	-20	-23

	1980	1981	1982
ex	999,999	999,999	999,999
+ + A	-100	-50	-75
jc1 chg +	+	+	+
=+ Temporary	0	50	-25
jc1 mvr +	+	+	+
/abs Temporary	0	100	50
% % Change	0	50	-50

The rows used for intermediate calculations can always be gotten rid of before printing by - drop Temporary

Here is one approach to getting a table to come out with dollar signs and percent signs in place.

	1980	1981	% Change	Total
ex	999,999	999,999	999	999,999
ac1	+	*	~	
ac2	+	+		=
+ A	\$	\$	%	\$
+ B	\$	\$	%	\$
= Total	\$	\$	%	\$

After you put the numbers in and compute this table, everything will look right except that there may be a gap between the dollar sign and the first digit. If you set up a file like the one below, you can insert it at the top of your table and use the do command to shift out the gap.

replace '\$ ' '\$' replace '\$ ' '\$' replace '\$ ' '\$' as needed.

ANSWERS

To: Paul Wiggon

As you pointed out, T/Maker standardly calculates a percent change in going from X to Y as- $[(Y - X) / X] * 100$. What you would prefer appears to be $[(Y - X) / \text{Absolute}(X)] * 100$ so that a change going up is always positive and a change going down is always negative regardless of the sign of X. Here are some possibilities:

	1980	1981	% Change
ex	999,999	999,999	999.99
ac1	+		abs
ac2	-	+	/%
+	-100	-50	50.00

	A	B	C
ex	999,999	999,999	999,999
+ - 1980	-100	100	-100
+ 1981	-50	80	-123
abs / Temporary	100	100	100
% % Change	50	-20	-23

	1980	1981	1982
ex	999,999	999,999	999,999
+ + A	-100	-50	-75
jc1 chg +	+	+	+
=+ Temporary	0	50	-25
jc1 mvr +	+	+	+
/abs Temporary	0	100	50
% % Change	0	50	-50

The rows used for intermediate calculations can always be gotten rid of before printing by - drop Temporary

Here is one approach to getting a table to come out with dollar signs and percent signs in place.

		1980	1981	% Change	Total
ex		999,999	999,999	999	999,999
ac1		+	*	~	
ac2		+	+		=
+	A	\$	\$	%	\$
+	B	\$	\$	%	\$
=	Total	\$	\$	%	\$

After you put the numbers in and compute this table, everything will look right except that there may be a gap between the dollar sign and the first digit. If you set up a file like the one below, you can insert it at the top of your table and use the do command to shift out the gap.

replace '\$ ' '\$' replace '\$ ' '\$' replace '\$ ' '\$' as needed.

