```
  PRESERVE.
SET DECIMAL DOT.

GET DATA  /TYPE=TXT
  /FILE="X:\My Downloads\cereals.txt"
  /DELCASE=LINE
  /DELIMITERS="\t"
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /DATATYPEMIN PERCENTAGE=95.0
  /VARIABLES=
  name AUTO
  mfr AUTO
  calories AUTO
  sugars AUTO
  carbo AUTO
  protein AUTO
  fat AUTO
  sodium AUTO
  fiber AUTO
  potass AUTO
  shelf AUTO
  Middle AUTO
  shelf_1 AUTO
  shelf_2 AUTO
  shelf_3 AUTO
  /MAP.
RESTORE.

CACHE.
EXECUTE.

Data written to the working file.
15 variables and 77 cases written.
Variable: name              Type: String  Format : A38          One or more
values were truncated.
Variable: mfr               Type: String  Format : A1
Variable: calories          Type: Number  Format : F3
Variable: sugars            Type: Number  Format : F2
Variable: carbo             Type: Number  Format : F4.1
Variable: protein           Type: Number  Format : F1
Variable: fat               Type: Number  Format : F1
Variable: sodium            Type: Number  Format : F3
```

```
Variable: fiber                   Type: Number  Format : F3.1
Variable: potass                  Type: Number  Format : F3
Variable: shelf                   Type: Number  Format : F1
Variable: Middle                  Type: String  Format : A3        One or more
values were truncated.
Variable: shelf_1                 Type: Number  Format : F1
Variable: shelf_2                 Type: Number  Format : F1
Variable: shelf_3                 Type: Number  Format : F1


DATASET NAME DataSet1 WINDOW=FRONT.
PRESERVE.
SET DECIMAL DOT.

GET DATA  /TYPE=TXT
  /FILE="X:\My Downloads\cereals.txt"
  /ENCODING='UTF8'
  /DELCASE=LINE
  /DELIMITERS=" "
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /LEADINGSPACES IGNORE=YES
  /DATATYPEMIN PERCENTAGE=95.0
  /VARIABLES=
  name AUTO
  mfr AUTO
  type AUTO
  calories AUTO
  protein AUTO
  fat AUTO
  sodium AUTO
  fiber AUTO
  carbo AUTO
  sugars AUTO
  potass AUTO
  vitamins AUTO
  shelf AUTO
  weight AUTO
  cups AUTO
  rating AUTO
  /MAP.
RESTORE.


CACHE.
EXECUTE.
```

```
Data written to the working file.
16 variables and 77 cases written.
Variable: name                 Type: String  Format : A38         One or more
values were truncated.
Variable: mfr                  Type: String  Format : A1
Variable: type                 Type: String  Format : A1
Variable: calories             Type: Number  Format : F3
Variable: protein              Type: Number  Format : F1
Variable: fat                  Type: Number  Format : F1
Variable: sodium               Type: Number  Format : F3
Variable: fiber                Type: Number  Format : F3.1
Variable: carbo                Type: Number  Format : F4.1
Variable: sugars               Type: Number  Format : F2
Variable: potass               Type: Number  Format : F3
Variable: vitamins             Type: Number  Format : F3
Variable: shelf                Type: Number  Format : F1
Variable: weight               Type: Number  Format : F4.2
Variable: cups                 Type: Number  Format : F4.2
Variable: rating               Type: Number  Format : F9.6

DATASET NAME DataSet2 WINDOW=FRONT.
PLS rating MLEVEL=S BY fat WITH sugars
  /CRITERIA LATENTFACTORS=5.
('Extension command ', 'PLS', ' could not be loaded. The module or a module
 that it requires may be missing, or there may be syntax errors in it.')
DATASET ACTIVATE DataSet2.
DATASET CLOSE DataSet1.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT rating
  /METHOD=ENTER sugars fat.
```

Regression

Notes

Output Created		17-OCT-2019 15:59:23
Comments		
Input	Data	X:\My Downloads\cereals. txt
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	77
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT rating /METHOD=ENTER sugars fat.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,06
	Memory Required	3568 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	fat, sugars[b]	.	Enter

a. Dependent Variable: rating

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,789[a]	,622	,612	8,754560842

a. Predictors: (Constant), fat, sugars

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	9325,268	2	4662,634	60,836	,000[b]
	Residual	5671,533	74	76,642		
	Total	14996,800	76			

a. Dependent Variable: rating

b. Predictors: (Constant), fat, sugars

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	61,089	1,953		31,284	,000
	sugars	-2,213	,235	-,700	-9,428	,000
	fat	-3,066	1,036	-,220	-2,958	,004

a. Dependent Variable: rating

```
 * Define Variable Properties.
*fat.
VARIABLE LEVEL  fat(SCALE).
EXECUTE.
PLS rating MLEVEL=S WITH sugars fat
  /CRITERIA LATENTFACTORS=5.
('Extension command ', 'PLS', ' could not be loaded. The module or a module
 that it requires may be missing, or there may be syntax errors in it.')
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT sugars
  /METHOD=ENTER fat.
```

Regression

Notes

Output Created		17-OCT-2019 16:03:17
Comments		
Input	Data	X:\My Downloads\cereals.txt
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	77
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.

Syntax		REGRESSION
		  /MISSING LISTWISE
		  /STATISTICS COEFF OUTS R ANOVA
		  /CRITERIA=PIN(.05) POUT(.10)
		  /NOORIGIN
		  /DEPENDENT sugars
		  /METHOD=ENTER fat.

Resources	Processor Time	00:00:00,03
	Elapsed Time	00:00:00,01
	Memory Required	3120 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	fat[b]	.	Enter

a. Dependent Variable: sugars

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,271[a]	,073	,061	4,307

a. Predictors: (Constant), fat

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	110,127	1	110,127	5,936	,017[b]
	Residual	1391,406	75	18,552		
	Total	1501,532	76			

a. Dependent Variable: sugars

b. Predictors: (Constant), fat

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	5,711	,699		8,173	,000
	fat	1,196	,491	,271	2,436	,017

a. Dependent Variable: sugars

```
REGRESSION
 /MISSING LISTWISE
 /STATISTICS COEFF OUTS R ANOVA
 /CRITERIA=PIN(.05) POUT(.10)
 /NOORIGIN
 /DEPENDENT fat
 /METHOD=ENTER sugars.
```

Regression

Notes

Output Created		17-OCT-2019 16:04:37
Comments		
Input	Data	X:\My Downloads\cereals.txt
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	77
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any variable used.
Syntax		REGRESSION /MISSING LISTWISE /STATISTICS COEFF OUTS R ANOVA /CRITERIA=PIN(.05) POUT(.10) /NOORIGIN /DEPENDENT fat /METHOD=ENTER sugars.
Resources	Processor Time	00:00:00,03
	Elapsed Time	00:00:00,01
	Memory Required	3120 bytes
	Additional Memory Required for Residual Plots	0 bytes

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	sugars[b]	.	Enter

a. Dependent Variable: fat

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	,271[a]	,073	,061	,975

a. Predictors: (Constant), sugars

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5,646	1	5,646	5,936	,017[b]
	Residual	71,341	75	,951		
	Total	76,987	76			

a. Dependent Variable: fat

b. Predictors: (Constant), sugars

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	,589	,207		2,848	,006
	sugars	,061	,025	,271	2,436	,017

a. Dependent Variable: fat