

# Calculate Data Cardinalities

A custom task for SAS Enterprise Guide

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## About this Task

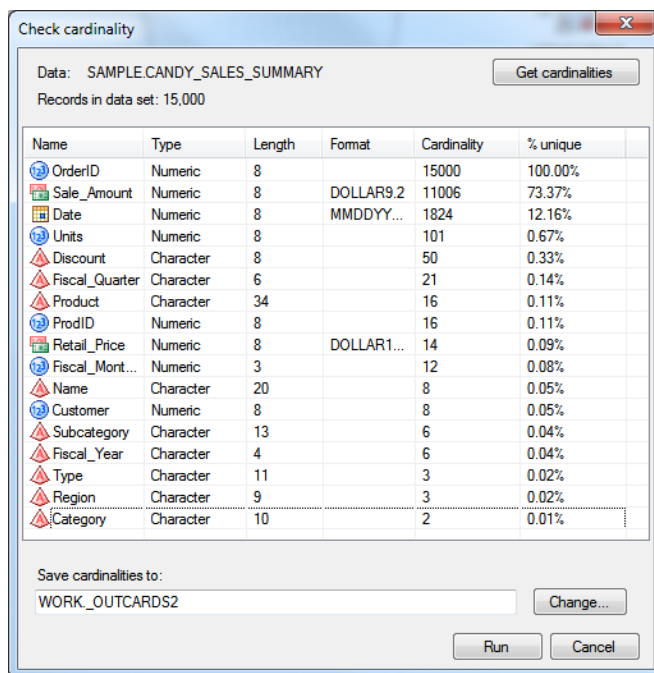
This package contains this task:

**Calculate Data Cardinalities** – counts the number of unique values for each variable in a data set (and the portion -- as a percentage -- that are unique).

## Calculate Data Cardinalities

This task has two useful features. First, it allows you to interactively view the cardinality of your data variables. Click the **Get cardinalities** button to submit a small SAS program that counts the unique data values. As long as the data are not too large, the operation can complete quickly – perhaps in a few seconds. The task offers a **Cancel** option if it takes too long.

Example screen shot with the cardinality information:



Name	Type	Length	Format	Cardinality	% unique
OrderID	Numeric	8		15000	100.00%
Sale_Amount	Numeric	8	DOLLAR9.2	11006	73.37%
Date	Numeric	8	MMDDYY...	1824	12.16%
Units	Numeric	8		101	0.67%
Discount	Character	8		50	0.33%
Fiscal_Quarter	Character	6		21	0.14%
Product	Character	34		16	0.11%
ProdID	Numeric	8		16	0.11%
Retail_Price	Numeric	8	DOLLAR1...	14	0.09%
Fiscal_Mont...	Numeric	3		12	0.08%
Name	Character	20		8	0.05%
Customer	Numeric	8		8	0.05%
Subcategory	Character	13		6	0.04%
Fiscal_Year	Character	4		6	0.04%
Type	Character	11		3	0.02%
Region	Character	9		3	0.02%
Category	Character	10		2	0.01%

Second, the task creates an output data set and simple report that contain the calculated cardinalities.

## Software Requirements

- SAS Enterprise Guide 4.3, 5.1, 6.1 (Windows 32-bit or 64-bit) or later
- SAS 9.2 or later (local install or remote SAS Workspace)

## Installing the Custom Task

Both custom tasks are packaged in this .NET assembly (DLL):

**SAS.Tasks.Cardinality.dll**

To install the custom tasks for use with SAS Enterprise Guide, you simply need to copy the DLL to a designated directory. The directory location is version specific, but always follows the format:

`%appdata%\SAS\EnterpriseGuide\<version>\Custom`

For example, for use by **just the current user in version 5.1**, copy the DLL to:

`%appdata%\SAS\EnterpriseGuide\5.1\Custom`

where `%appdata%` is a Windows environment variable that resolves to your profile area. You might need to create the "Custom" subfolder in this area.

For use by **all users** on a machine, copy the DLL to:

`%programfiles%\SASHome\SASEnterpriseGuide\5.1\Custom`

The exact folder name will depend on the installed location and version of SAS Enterprise Guide. You might need to create the "Custom" subfolder in this area. You might also need elevated privileges on your machine to copy content into the Program Files area.

After the file is copied into place, restart SAS Enterprise Guide. The task should appear in the **Tools->Add-Ins** menu.

See also: [Special steps for installing custom tasks that you download](#)