

### Summing with SAS®

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#### ABSTRACT

This paper reviews methods used to sum data, including horizontal summation (summing data across variables), vertical summation (summing data across observations), and cumulative summation (summing data across both observations and variables to create running totals). Techniques include the addition operator, the SUM function, PROC PRINT, PROC MEANS, PROC SQL, the RETAIN statement, FIRST/LAST, processing, and the SUM statement. Special attention is paid to how SAS® handles missing values in each technique.

#### INTRODUCTION

Summing data seems like a simple concept, but there are actually many complexities. Depending on the data set and the analysis question, one should use different methods. This paper presents four analysis questions involving summation and answers them using the most appropriate SAS technique.

#### SAMPLE DATA SET

Below is a data set, FINANCIALS, that contains weekly revenue and cost information for two branches of a toy store in the weeks around Christmas. The two branches (LOCATION) are Boston and New York. Revenue comes from three different product lines: toys (REV1), games (REV2), and books (REV3). There is also one cost variable (COSTS). DATE indicates the start date of each holiday week.

location	date	rev1	rev2	rev3	costs
Boston	12/15/2006	\$500	\$150	\$300	-\$200
Boston	12/22/2006	\$300	\$500	\$200	-\$200
Boston	12/29/2006	\$100	\$200	\$50	-\$200
Boston	1/6/2007	\$100	\$100	\$150	-\$200
New York	12/15/2006	.	\$600	\$400	-\$400
New York	12/22/2006	\$700	\$600	\$250	-\$400
New York	12/29/2006	\$200	\$300	\$100	-\$400
New York	1/6/2007	\$50	\$100	\$50	-\$400
	1/6/2007	\$950	\$1,600	\$800	-\$1,600

Note that this data set has missing values for two variables: REV1 and LOCATION. In these data, a missing value of REV1 means that there was no revenue from toys in that week (i.e., a value of missing is equivalent to a value of zero, so the value is not, in fact, "missing"). On the other hand, the observation with missing data for LOCATION does not look like good data. It seems to be a total of the revenues and costs of the New York branch over the four holiday weeks that was included in this data set by accident. This paper describes how to deal with both good and bad missing data so as to avoid unexpected results.

#### ANALYSIS QUESTIONS

The owner of the toy store is interested in determining whether certain locations or certain product lines are more profitable than others. This paper will demonstrate various summation techniques in SAS to answer the following analysis questions:

1. What is the weekly profit for each branch?
2. How much revenue did each product line bring in during the holiday period (and did this differ by branch)?
3. How much profit did each branch earn during the holiday period, in dollars and as a percent age of total profits?
4. What is the cumulative profit to date of this company by branch at each week?

#### HORIZONTAL SUMMATION

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programming in SAS. These papers discuss techniques to save both machine time and space and human power. Some of these papers are aimed at beginners and others at advanced programmers. Many of these papers were written for earlier releases of SAS, but SAS Version 8 was rewritten with major changes affecting efficiency. In order to

prepare for this paper, the techniques were first tested with ...

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the SAS System, is beyond the scope of this paper and will not be considered here. SAS System implementation of these types of models is discussed in the following SAS Institute publications: • Logistic Regression Examples Using the SAS System (1995) • SAS Technical Report R-109: Conjoint Analysis Examples (1993) Effect of Coding Dependent Variable on how PROC LOGISTIC Works The zero/one ...

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