Using the SAS/ACCESS® Interface with Relational DBMSs: Beyond the Basics

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ABSTRACT

The SAS/ACCESS® interface software to the relational database management systems (RDBMS), SYBASE®, SQL/DS®, ORACLE®, and INFORMIX® provides SAS users with an easy way to access data stored in RDBMS tables. Using the SAS/ACCESS interface, SAS users can create SAS data views of RDBMS tables, use the SAS DATA step to read and update RDBMS tables, and use SAS procedures to analyze RDBMS tables. This paper discusses ways to accomplish some of the more advanced tasks that users of SAS/ACCESS interface software might have. This paper is intended for users who are already familiar with the basic use of the SAS/ACCESS interface for either SYBASE, SQL/DS, ORACLE, or INFORMIX.

INTRODUCTION

Every SAS programming task that accesses data stored in relational DBMS tables can easily be accomplished from the Structured Query Language of SAS/ACCESS software. Those who come rather to edit the necessary few (a SAS paragraph for use at many different approach rather) accessing data from a database management system. The reasons may be that a more sophisticated application is being designed or there is a need for greater processing efficiency than is available with the basic methods. The techniques used for these advanced needs are essentially the same for all the SAS/ACCESS interfaces to relational database management systems. These SAS/ACCESS products include the interfaces to SYBASE, SQL/DS, ORACLE, and INFORMIX.

Some of the more advanced needs addressed by this paper are:

- selecting data from a DBMS table using key values from a SAS data set
- updating a DBMS table with values from a SAS data set
- selecting data from two DBMS tables
- using SAS/ACCESS views in Screen Control Language (SCL) applications with SAS/AF® and SAS/FSP® software
- selecting summary for a subset of a DBMS table based on a query

The techniques explained in this paper are generally applicable to Release 6.06 of the SAS® System. The techniques described are also based on efficient routing techniques for the SAS/ACCESS products. These efficiency guidelines are most pronounced on SAS/ACCESS to Sybase, SAS/ACCESS to Oracle, the multiplatform SAS/ACCESS to Informix, please refer to these papers. The recommendations made in this paper are based on the current release (Release 6.06) of the SAS/ACCESS interface products. See the "Changes Since" appendix in your usage and reference guide for the SAS/ACCESS interface for more information on these topics.

EXTRACTING DATA FROM ORDERS TABLES USING KEY VALUES FROM A SAS DATA SET

One of the more common tasks that is modified to be performed from a DBMS table based on key values stored in a SAS data set. A typical example of this would be a SAS data set which contains a particular subset of customer identification numbers that are of interest. You want to go to the CUSTOMERS DBMS table and retrieve the rows which correspond to the customer identification numbers.

Suppose that there is a SAS data set named CUSTNUMS in the SAS data library with the form CUSTNUMS. This data set has one variable called ID, whose value is the customer identification number of a customer that is of interest. The data set could have been generated by a report of some sort or some application or by another program. An example of the data set is as follows:

ID
[illegible]
[illegible]
[illegible]

The information on all the customers has been stored in a DBMS table called CUSTOMERS. A SAS/ACCESS view descriptor has been created for this table (by the name of CUSTVIEW) and stored in the library referred to by the libref VIEWLIB. A portion of this table is as follows:

CUSTOMER ID	NAME	ADDRESS
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

The resulting table can then be desired by a client and that have the name and addresses for each customer identification number in the CUSTOMERS table over that the CUSTOMERS data set shown above. The data set would be as follows:

CUSTOMER ID	NAME	ADDRESS
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Once the problem has been outlined as above, it is management as a join as in merge processing. Possible solutions to this problem are as follows:

- Use the SQL procedure to join the SAS data set and DBMS table.
- Use a DATA step to merge the SAS data set and DBMS table.

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Christian G. Meyer

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