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A Guide for Connecting Java to SAS® Data Sets

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ABSTRACT

This paper is written for Java programmers who want to access SAS data sets. We provide step-by-step examples to connect Java to SAS using three SAS technologies:

- the Base SAS® Java Object interface (Javaobj)
- SAS/SHARE®
- SAS/ACCESS® to a third-party database

The first example sets up a Java class and then drives it from Base SAS. The second and third examples build a simple Java applet and then use Java Database Connectivity (JDBC) code and drivers to read data from a server. Each example is based on the Windows operating system using the `sashelp.class` sample data.

INTRODUCTION

Each programming language has its unique strengths. SAS reads and processes raw data efficiently and supports powerful statistical and analytic tools, often requiring only a few lines of code. Java, on the other hand, is a versatile Object Oriented language with a long list of third-party libraries developed on the Java Virtual Machine (JVM) and a widely-used Web platform.

SAS provides a number of connection methods to communicate with Java. The challenge of integrating any two (or more) software technologies, however, lies in lining up all of the pieces. Even practiced Java and/or SAS programmers may be left scratching their heads, trying to answer questions such as "Which technology should I use?", "Did I set this classpath correctly?" or "Am I using the correct drivers?".

We attempt to answer these and other basic questions using ground-up examples to access the `sashelp.class` sample data set from Java. `Sashelp.class` contains name, sex, age, height and weight information for 19 individual students.

BASE SAS (JAVAOBJ)

The easiest method for getting SAS data into Java is to instantiate a Java object from within SAS using the `Javaobj` construct. This method has the fewest prerequisites; all it takes is SAS version 9.1.3 or newer and a JVM installed and working.

This example is demonstrated using the Eclipse development environment, though a text editor and Java command line tools would work just as well.

Manual Sas Version 9 1

**Leslie Rutkowski, Matthias von
Davier, David Rutkowski**



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The SAGE Handbook of Quantitative Methods in Psychology Roger E Millsap, Alberto Maydeu-Olivares, 2009-08-05 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis and cluster analysis Part Five Structural Equation Models addresses topics in general structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis *Argonne Computing Newsletter*, 1988 **Handbook of International Large-Scale Assessment** Leslie Rutkowski, Matthias von Davier, David Rutkowski, 2013-11-12 Technological and statistical advances along with a strong interest in gathering more information about the state of our educational systems have made it possible to assess more students in more countries more often and in more subject domains The

Handbook of International Large Scale Assessment Background Technical Issues and Methods of Data Analysis brings together recognized scholars in the field of ILSA behavioral statistics and policy to develop a detailed guide that goes beyond database user manuals After highlighting the importance of ILSA data to policy and research the book reviews methodological aspects and features of the studies based on operational considerations analytics and reporting The book then describes methods of interest to advanced graduate students researchers and policy analysts who have a good grounding in quantitative methods but who are not necessarily quantitative methodologists In addition it provides a detailed exposition of the technical details behind these assessments including the test design the sampling framework and estimation methods with a focus on how these issues impact analysis choices

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This book delves into Manual Sas Version 9 1. Manual Sas Version 9 1 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Manual Sas Version 9 1, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Manual Sas Version 9 1
- Chapter 2: Essential Elements of Manual Sas Version 9 1
- Chapter 3: Manual Sas Version 9 1 in Everyday Life
- Chapter 4: Manual Sas Version 9 1 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Manual Sas Version 9 1. This chapter will explore what Manual Sas Version 9 1 is, why Manual Sas Version 9 1 is vital, and how to effectively learn about Manual Sas Version 9 1.
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The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Manual Sas Version 9 1.

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