SQL Step by Step:

An advanced tutorial for business users

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Abstract

Some excellent papers have been presented at SUGI and NESUG giving reasons to use SQL (Hermansen), overviews of SQL (Winn), selected features of SQL (Pass & Dickson, Peterd), or behind the scene details of joins (Kent). This paper aims to solidify your understanding of the power of SQL by presenting an integrated series of examples that progress from the straightforward to the intricate. The paper will focus on coding but will pay some attention to performance issues and use of SQL via pass-thru to other databases.

Scope of this Paper

The purpose of this paper is to introduce advanced users of the SAS System to some of the more complicated tasks that can be accomplished using SQL. This is not intended to provide the reader with a blueprint of all the functionality found in SQL, but rather a focused exercise into the complexity of the language. Each of the examples is presented in order of common business questions that might have been asked.

The example we will be using throughout the paper will be data from the Northwinds Trading Company database that is distributed with Microsoft Access. The database is an order entry system for a company that sells a broad range of consumable food products. We selected this database for building our sample warehouse application for three reasons: (1) it is available to anyone who has MS-Access, (2) MS-Access is ODBC compliant and it was easy to get this data into SAS via SAS/ACCESS to ODBC, and (3) it provides a classic example of an operational system used in order processing that most of us have some familiarity with.

Data Structure

Just as a programmer would have to know what data elements are available in their operational data store, we too must understand the type of data that we have in order to answer questions about that data. Figure 1 shows our main subject entity-relationship diagram (ERD) that tells us basically what tables we have in our database.
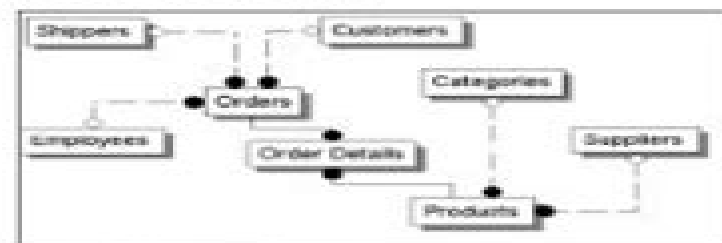

Figure 1. Main subject Area ERD

Note that this diagram shows the relationships between tables in our database. At the lowest level of detail we have information about specific orders that were placed at our fictitious company. For a detailed entity-relationship diagram, please refer to Appendix A.

From there, we can see the data in our system that support that level of detail. for example, we have information about our products, our customers, our employees in addition to having ancillary information about these things.

Now that we have at least a cursory understanding of our data, let's move forward and try to answer some basic business questions about this data. Let's turn our data into information.

Sas Sugi Papers

Richard Bailey

Sas Sugi Papers:

  Carpenter's Guide to Innovative SAS Techniques Art Carpenter,2012-03-02 Carpenter s Guide to Innovative SAS Techniques offers advanced SAS programmers an all in one programming reference that includes advanced topics not easily found outside the depths of SAS documentation or more advanced training classes Art Carpenter has written fifteen chapters of advanced tips and techniques including topics on data summary data analysis and data reporting Special emphasis is placed on DATA step techniques that solve complex data problems There are numerous examples that illustrate advanced techniques that take advantage of formats interface with the macro language and utilize the Output Delivery System Additional topics include operating system interfaces table lookup techniques and the creation of customized reports

  Advanced SQL with SAS Christian FG Schendera,2022-05-01 This book introduces advanced techniques for using PROC SQL in SAS If you are a SAS programmer analyst or student who has mastered the basics of working with SQL Advanced SQL with SAS will help take your skills to the next level Filled with practical examples with detailed explanations this book demonstrates how to improve performance and speed for large data sets Although the book addresses advanced topics it is designed to progress from the simple and manageable to the complex and sophisticated In addition to numerous tuning techniques this book also touches on implicit and explicit pass throughs presents alternative SAS grid and cloud based processing environments and compares SAS programming languages and approaches including FedSQL CAS DS2 and hash programming Other topics include Missing values and data quality with audit trails Blind spots like how missing values can affect even the simplest calculations and table joins SAS macro language and SAS macro programs SAS functions Integrity constraints SAS Dictionaries SAS Compute Server   **Text Mining and Analysis** Dr. Goutam Chakraborty,Murali Pagolu,Satish Garla,2014-11-22 Big data It s unstructured it s coming at you fast and there s lots of it In fact the majority of big data is text oriented thanks to the proliferation of online sources such as blogs emails and social media However having big data means little if you can t leverage it with analytics Now you can explore the large volumes of unstructured text data that your organization has collected with Text Mining and Analysis Practical Methods Examples and Case Studies Using SAS This hands on guide to text analytics using SAS provides detailed step by step instructions and explanations on how to mine your text data for valuable insight Through its comprehensive approach you ll learn not just how to analyze your data but how to collect cleanse organize categorize explore and interpret it as well Text Mining and Analysis also features an extensive set of case studies so you can see examples of how the applications work with real world data from a variety of industries Text analytics enables you to gain insights about your customers behaviors and sentiments Leverage your organization s text data and use those insights for making better business decisions with Text Mining and Analysis This book is part of the SAS Press program   *Carpenter's Complete Guide to the SAS Macro Language, Third Edition* Art Carpenter,2016-08-25 For SAS programmers or analysts who need to generalize their programs or improve programming

efficiency Art Carpenter thoroughly updates his highly successful second edition of Carpenter s Complete Guide to the SAS Macro Language with an extensive collection of new macro language techniques and examples Addressing the composition and operation of the SAS macro facility and the SAS macro language this third edition offers nearly 400 ready to use macros macro functions and macro tools that enable you to convert SAS code to macros define macro variables and more Users with a basic understanding of Base SAS who are new to the SAS macro language will find more detail utilities and references to additional learning opportunities advanced macro language programmers who need help with data driven macros and dynamic application development will find greatly expanded treatment of these topics This revised and enlarged edition includes the following topics New and expanded introduction to the macro language Functions automatic macro variables and macro statements new to the macro language Expanded macro language tools that interface with the operating system Expanded data driven methodologies used to build dynamic applications Expanded discussion of list processing with four alternative approaches presented Additional file and data management examples Expanded discussion of CALL EXECUTE and DOSUBL New discussion of using the macro language on remote servers Expanded discussion and examples of macro quoting Far beyond a reference manual issued from an ivory tower this book is pragmatic and example driven Yes you will find syntax examples yes the code is explained But the focus of this book is on actual code used to solve real world business problems In fact an entire appendix is dedicated to listing the nearly 70 classes of problems that are solved by programs covered in this edition Discussion of the examples elucidates the pros and cons of the particular solution and often suggests alternative approaches Therefore this book provides you both a compendium of reusable and adaptable code and opportunities for deepening your understanding and growing as a SAS programmer   SAS Communications SAS Institute,1988   *Research Paper* ,1988   **Predictive Analytics** Eric Siegel,2013-02-07 Mesmerizing fascinating The Seattle Post Intelligencer The Freakonomics of big data Stein Kretsinger founding executive of Advertising com Award winning Used by over 30 universities Translated into 9 languages An introduction for everyone In this rich fascinating surprisingly accessible introduction leading expert Eric Siegel reveals how predictive analytics works and how it affects everyone every day Rather than a how to for hands on techies the book serves lay readers and experts alike by covering new case studies and the latest state of the art techniques Prediction is booming It reinvents industries and runs the world Companies governments law enforcement hospitals and universities are seizing upon the power These institutions predict whether you re going to click buy lie or die Why For good reason predicting human behavior combats risk boosts sales fortifies healthcare streamlines manufacturing conquers spam optimizes social networks toughens crime fighting and wins elections How Prediction is powered by the world s most potent flourishing unnatural resource data Accumulated in large part as the by product of routine tasks data is the unsalted flavorless residue deposited en masse as organizations churn away Surprise This heap of refuse is a gold mine Big data embodies an extraordinary wealth of experience from which to

learn Predictive Analytics unleashes the power of data With this technology the computer literally learns from data how to predict the future behavior of individuals Perfect prediction is not possible but putting odds on the future drives millions of decisions more effectively determining whom to call mail investigate incarcerate set up on a date or medicate In this lucid captivating introduction now in its Revised and Updated edition former Columbia University professor and Predictive Analytics World founder Eric Siegel reveals the power and perils of prediction What type of mortgage risk Chase Bank predicted before the recession Predicting which people will drop out of school cancel a subscription or get divorced before they even know it themselves Why early retirement predicts a shorter life expectancy and vegetarians miss fewer flights Five reasons why organizations predict death including one health insurance company How U S Bank and Obama for America calculated and Hillary for America 2016 plans to calculate the way to most strongly persuade each individual Why the NSA wants all your data machine learning supercomputers to fight terrorism How IBM s Watson computer used predictive modeling to answer questions and beat the human champs on TV s Jeopardy How companies ascertain untold private truths how Target figures out you re pregnant and Hewlett Packard deduces you re about to quit your job How judges and parole boards rely on crime predicting computers to decide how long convicts remain in prison 183 examples from Airbnb the BBC Citibank ConEd Facebook Ford Google the IRS LinkedIn Match com MTV Netflix PayPal Pfizer Spotify Uber UPS Wikipedia and more How does predictive analytics work This jam packed book satisfies by demystifying the intriguing science under the hood For future hands on practitioners pursuing a career in the field it sets a strong foundation delivers the prerequisite knowledge and whets your appetite for more A truly omnipresent science predictive analytics constantly affects our daily lives Whether you are a consumer of it or consumed by it get a handle on the power of Predictive Analytics   **Data Quality** Rupa Mahanti,2019-03-18 This is not the kind of book that you ll read one time and be done with So scan it quickly the first time through to get an idea of its breadth Then dig in on one topic of special importance to your work Finally use it as a reference to guide your next steps learn details and broaden your perspective from the foreword by Thomas C Redman Ph D the Data Doc Good data is a source of myriad opportunities while bad data is a tremendous burden Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace while bad data like cancer can weaken and kill an organization In this comprehensive book Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality Specifically the book addresses Causes of bad data quality bad data quality impacts and importance of data quality to justify the case for data quality Butterfly effect of data quality A detailed description of data quality dimensions and their measurement Data quality strategy approach Six Sigma DMAIC approach to data quality Data quality management techniques Data quality in relation to data initiatives like data migration MDM data governance etc Data quality myths challenges and critical success factorsStudents academicians professionals and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects It

balances technical details for example SQL statements relational database components data quality dimensions measurements and higher level qualitative discussions cost of data quality data quality strategy data quality maturity the case made for data quality and so on with case studies illustrations and real world examples throughout **Handbook of Disruptive Technologies** Chand Saini,Neha Gupta,Ajay Kumar,2025-03-20 This handbook addresses how smart operations management and healthcare can be used to detect and analyze supply chain problems business problems and diseases It also discusses the underlying methodologies and related security concerns Handbook of Disruptive Technologies Operations Business Management and Healthcare provides updated and timely insights unique approaches or frameworks practical applications and case studies It provides in depth knowledge of disruptive technologies and applies data analytics to different areas to solve complex situations The handbook uses data analytics in decision making and policy framing and identifies practices and applications of disruptive technologies that can assist organizations in gaining a competitive advantage Valuable insights innovative approaches practical applications and case studies can be found in this handbook as it effectively consolidates and synthesizes information to provide a comprehensive understanding of the subject matter This book is tailored for researchers academics and professionals seeking to deepen their knowledge in the field *Advanced Computing Applications, Databases and Networks* S.A Begum,2011-05-13 ADVANCED COMPUTING APPLICATIONS DATABASES AND NETWORKS focuses on new developments and advances in three major areas of Computer Science The first part presents some significant contributions and surveys major research areas of Advanced Computing Applications viz Natural Language Processing Medical Imaging Soft Computing Methodologies and a wide variety of its application domains The second part explains different approaches towards development of Unified Theoretical Model for Database Mining Dimension Reduction of higher dimensional data and the applicability of Soft Computing Methodologies in Data Mining and Clustering The third part provides the approaches taken to address the challenging problems in the areas of Wired and Wireless Networks The chapters in this volume are representative of recent research efforts and advances in the area of Advanced Computing Applications Databases and Networks covering both theoretical and application issues *Statistics in the Social Sciences* Stanislav Kolenikov,Lori Thombs,Douglas Steinley,2010-02-22 A one of a kind compilation of modern statistical methods designed to support and advance research across the social sciences Statistics in the Social Sciences Current Methodological Developments presents new and exciting statistical methodologies to help advance research and data analysis across the many disciplines in the social sciences Quantitative methods in various subfields from psychology to economics are under demand for constant development and refinement This volume features invited overview papers as well as original research presented at the Sixth Annual Winemiller Conference Methodological Developments of Statistics in the Social Sciences an international meeting that focused on fostering collaboration among mathematical statisticians and social science researchers The book provides an accessible and insightful look at modern approaches to identifying and describing current

effective methodologies that ultimately add value to various fields of social science research With contributions from leading international experts on the topic the book features in depth coverage of modern quantitative social sciences topics including Correlation Structures Structural Equation Models and Recent Extensions Order Constrained Proximity Matrix Representations Multi objective and Multi dimensional Scaling Differences in Bayesian and Non Bayesian Inference Bootstrap Test of Shape Invariance across Distributions Statistical Software for the Social Sciences Statistics in the Social Sciences Current Methodological Developments is an excellent supplement for graduate courses on social science statistics in both statistics departments and quantitative social sciences programs It is also a valuable reference for researchers and practitioners in the fields of psychology sociology economics and market research *Neural Information Processing* Tom Gedeon,Kok Wai Wong,Minho Lee,2019-12-05 The two volume set CCIS 1142 and 1143 constitutes thoroughly refereed contributions presented at the 26th International Conference on Neural Information Processing ICONIP 2019 held in Sydney Australia in December 2019 For ICONIP 2019 a total of 345 papers was carefully reviewed and selected for publication out of 645 submissions The 168 papers included in this volume set were organized in topical sections as follows adversarial networks and learning convolutional neural networks deep neural networks embeddings and feature fusion human centred computing human centred computing and medicine human centred computing for emotion hybrid models image processing by neural techniques learning from incomplete data model compression and optimization neural network applications neural network models semantic and graph based approaches social network computing spiking neuron and related models text computing using neural techniques time series and related models and unsupervised neural models Electronic Business: Concepts, Methodologies, Tools, and Applications Lee, In,2008-12-31 Enhances libraries worldwide through top research compilations from over 250 international authors in the field of e business (Japan),1900 **PROC DOCUMENT by Example Using SAS** Michael Tuchman,2012-10-01 PROC DOCUMENT by Example Using SAS demonstrates the practical uses of the DOCUMENT procedure a part of the Output Delivery System in SAS 9 3 Michael Tuchman explains how to work with PROC DOCUMENT which is designed to store your SAS procedure output for replay at a later time without having to rerun your original SAS code You ll learn how to save a collection of procedure output descriptive text and supporting graphs that can be replayed as a single unit save output once and distribute that same output in a variety of ODS formats such as HTML CSV and PDF create custom reports by comparing output from the same procedure run at different points in time create a table of contents for your output modify the appearance of both textual and graphical ODS output even if the original data is no longer available or easily accessible manage your tabular and graphical output by using descriptive labels titles and footnotes rearrange the original order of output in a procedure to suit your needs After using this book you ll be able to quickly and easily create libraries of professional looking output that are accessible at any time This book is part of the SAS Press program PROC SQL Kirk Paul Lafler,2019-03-20 PROC SQL Beyond the

Basics Using SAS Third Edition is a step by step example driven guide that helps readers master the language of PROC SQL Packed with analysis and examples illustrating an assortment of PROC SQL options statements and clauses this book not only covers all the basics but it also offers extensive guidance on complex topics such as set operators and correlated subqueries Programmers at all levels will appreciate Kirk Lafler s easy to follow examples clear explanations and handy tips to extend their knowledge of PROC SQL This third edition explores new and powerful features in SAS 9 4 including topics such as IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data driven programming Delving into the workings of PROC SQL with greater analysis and discussion PROC SQL Beyond the Basics Using SAS Third Edition explores this powerful database language using discussion and numerous real world examples **Management** ,1986 **Management, a Bibliography for NASA Managers** ,1986 Index of Conference Proceedings British Library. Document Supply Centre,2003 Visualization of Time-Oriented Data Wolfgang Aigner,Silvia Miksch,Heidrun Schumann,Christian Tominski,2023-12-21 This is an open access book Time is an exceptional dimension with high relevance in medicine engineering business science biography history planning or project management Understanding time oriented data via visual representations enables us to learn from the past in order to predict plan and build the future This second edition builds upon the great success of the first edition It maintains a brief introduction to visualization and a review of historical time oriented visual representations At its core the book develops a systematic view of the visualization of time oriented data Separate chapters discuss interaction techniques and computational methods for supporting the visual data analysis Many examples and figures illustrate the introduced concepts and techniques So what is new for the second edition First of all the second edition is now published as an open access book so that anyone interested in the visualization of time and time oriented data can read it Second the entire content has been revised and expanded to represent state of the art knowledge The chapter on interaction support now includes advanced methods for interacting with visual representations of time oriented data The second edition also covers the topics of data quality as well as segmentation and labeling The comprehensive survey of classic and contemporary visualization techniques now provides more than 150 self contained descriptions accompanied by illustrations and corresponding references A completely new chapter describes how the structured survey can be used for the guided selection of suitable visualization techniques For the second edition our TimeViz Browser the digital pendant to the survey of visualization techniques received a major upgrade It includes the same set of techniques as the book but comes with additional filter and search facilities allowing scientists and practitioners to find exactly the solutions they are interested in

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