

[SAS-SQ1]: SAS SQL 1: Essentials

Length : 2 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

This course teaches you how to process SAS data using Structured Query Language (SQL).

Audience Profile

SAS programmers and business analysts

At Course Completion

- Query and subset data.
- Summarize and present data.
- Combine tables using joins and set operators.
- Create and modify tables and views.
- Create data-driven macro variables using a query.
- Access DBMS data with SAS/ACCESS technology.

Pre-Requisites

Before attending this class, you should be able to do the following:

- Submit SAS programs on your operating system.
- Create and access SAS data sets.
- Use arithmetic, comparison, and logical operators.
- Invoke SAS procedures.

You can gain this experience from the SAS Programming 1: Essentials course. No knowledge of SQL is necessary.

This course addresses Base SAS software.

This course is appropriate for students who are using SAS 9 software.

Course Outline

Module 1: Essentials

Lessons

- Setting up for this course.
- Overview of SAS Foundation.
- Course logistics.
- Course data files.
- Introducing the Structured Query Language.
- Overview of the SQL procedure.
- Exploring tables.
- Specifying columns

AVANTUS TRAINING PTE LTD

80 Jurong East Street 21 #04-04 Devan Nair Institute Singapore 068897

Main Line: +65 6661 0888 | Fax: +65 6661 0886

Email: enquiries@AvantusTraining.com

www.AvantusTraining.com

Module 2: PROC SQL Fundamentals**Lessons**

- Subsetting data.
- Presenting data.
- Summarizing data.
- Creating and managing tables.
- Using DICTIONARY tables.

Module 3: SQL Joins**Lessons**

- Introduction to SQL joins.
- Inner joins.
- Outer joins.
- Complex SQL joins.

Module 4: Subqueries**Lessons**

- Noncorrelated subqueries.
- Correlated subqueries.
- In-line views.
- Creating views with the SQL procedure.
- Subqueries in the SELECT clause.
- Remerging summary statistics.

Module 5: Set Operators**Lessons**

- Introduction to set operators.
- The INTERSECT operator.
- The EXCEPT operator.
- The UNION operator.
- The OUTER UNION operator.

Module 6: Using and Creating Macro Variables in SQL**Lessons**

- Interfacing PROC SQL with the macro language.
- Creating data-driven macro variables with a query.
- Using macro variables in SQL.

Module 7: Accessing DBMS Data with SAS/ACCESS**Lessons**

- Overview of SAS/ACCESS technology.
- SQL pass-through facility.
- SAS/ACCESS LIBNAME statement.
- PROC FedSQL.

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