UNIVERSITY OF OULU, 22. - 23.5.2017

This course is for users who want to learn how to write SAS programs. It is the entry point to learning SAS programming. No prior SAS experience is needed. Course language is english and all the participant will receive a copy of The Little SAS Book which is used as course notes.

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Monday 22.5.2017:
09:15 - 09:35 Why should I learn SAS?
09:35 - 12:00 SAS programming
12:00 - 13:00 Lunch
13:00 - 16:00 SAS programming
16:00 - 18:00 Practicals I

Tuesday 23.5.2017:
09:15 - 09:35 8 levels of analytics
09:35 - 11:30 SAS programming continues
11:30 - 12:30 Lunch
12:30 - 16:00 SAS programming
16:00 - 18:00 Practicals II

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During the two days these chapters will be covered:

Chapter 1: Getting Started Using SAS Software
1.1. The SAS Language
1.2. SAS Data Sets
1.3. DATA and PROC Steps
1.4. The Data Step’s Built-in Loop
1.5. Choosing a Mode for Submitting SAS Programs
1.6. Windows and Commands in the SAS Windowing Environment
1.7. Submitting a Program in the SAS Windowing Environment
1.8. Reading the SAS Log
1.9. Viewing Your Results
1.10. SAS Data Libraries
1.11. Viewing Data Sets in the Viewtable Window

Chapter 2: Getting your Data into SAS
2.1. Methods for Getting Your Data into SAS
2.2. Entering Data with the Viewtable Window
2.3. Reading Files with the import Wizard
2.4. Telling SAS Where to Find Your Raw Data
2.5. Reading Raw Data Separated by Spaces
2.6. Reading Raw Data Arranged in Columns
2.7. Reading Raw Data Not in Standard Format
2.8. Selected Informats
2.14. Controlling Input with Options in the INFILE Statement
2.15. Reading Delimited Files with the DATA Step
2.18. Temporary versus Permanent SAS Data Sets
2.19. Using Permanent SAS Data Sets with the LIBNAME Statement
Chapter 3: Working with Your Data

3.1. Creating and Redefining Variables
3.2. Using SAS Functions
3.3. Selected SAS Character Functions
3.4. Selected SAS Numeric Functions
3.5. Using IF-THEN Statement
3.6. Grouping Observations with the IF-THEN / ELSE Statements
3.7. Subsetting Your Data
3.8. Working with SAS Dates
3.9. Selected Date Informats, Functions, and Formats

Chapter 4: Sorting, Printing, and Summarizing Your Data

4.1. Using SAS Procedures
4.2. Subsetting in Procedures with the WHERE Statement
4.3. Sorting Your Data with PROC SORT
4.4. Printing Your Data with PROC PRINT
4.5. Changing the Appearance of Printed Values with Formats
4.6. Selected Standard Formats
4.7. Creating Your Own Formats Using PROC FORMAT
4.8. Summarizing Your Data Using PROC MEANS
4.9. Writing Summary Statistics to a SAS Data Set
4.10. Counting Your Data with PROC FREQ

Chapter 5: Enhancing Your Output with ODS

5.1. Concepts of the Output Delivery System
5.6. Creating RTF Output

Chapter 6: Modifying and Combining SAS Data Sets

6.1. Modifying a Data Set Using the SET Statement
6.2. Stacking Data Sets Using the SET Statement
6.4. Combining Data Sets Using a One-to-One Match Merge
6.11. Using SAS Data Set Options

Chapter 8: Visualizing Your Data

8.1. Concepts of ODS Graphics
8.5. Creating Scatter Plots
8.6. Creating Series Plots
8.7. Creating Fitted Curves

Chapter 9: Using Basic Statistical Procedures

9.1. Examining the Distribution of Data with PROC UNIVARIATE
9.2. Creating Statistical Graphics with PROC UNIVARIATE
9.8. Examining Correlations with PROC CORR
9.9. Creating Statistical Graphics with PROC CORR

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