LEARN AT HOME

LEARN BASE SAS & ADVANCE SAS

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SAS- 9.3/9.4 (Banking/Finance/Healthcare/Retail & Telecom Domains) Sub Modules

Major topics:
Base SAS
Advance SAS
SAS Macros
SAS SQL
SAS/Certification classes

Additional:
Written tests
Coding on real-time SAS project
Resume preparation
Interview questions
Mock interviews

SAS/BASE

BASIC THEORY & RULES ETC
SAS WINDOWING ENVIRONMENT
CREATION OF LIBRARIES
SAS PROGRAMMING (BRIEFLY)
- DATASTEP
- PROC STEP
WAYS TO READ DATA INTO SAS
BACK END PROCESS OF DATASTEP
INSTALLATION PROCESS

DATASTEP
DATA STATEMENT & DATASET OPTIONS
INFILE STATEMENT & OPTIONS
INPUT STATEMENT &STYLES & OPTIONS
DATALINES STATEMENT

ATTRIBUTES OF THE VARIABLES

LENGTH, LABEL STATEMENTS
INFORMATS & FORMATS
HOW DATES WORKS IN SAS

OTHER STATEMENTS
SUM STATEMENT
RETAIN STATEMENTS
GOTO STATEMENT
LINK STATEMENT
RETURN STATEMENT
KEEP STATEMENT
DROP STATEMENT
RENAME STATEMENT
REPLACE STATEMENT
RETURN STATEMENT
OUTPUT STATEMENT
DM STATEMENT

CONDITIONAL STATEMENTS & LOOPS

IF, IF/THEN, IF/THEN/ELSE,IF/THEN OUTPUT, IF/THEN DELETE STATEMENTS
WHERE STATEMENT& OPERATORS
DO, DO ITERATIVE, DO UNTIL & DO WHILE STATEMENTS

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ADVANCE/SAS

ARRAYS

COMBINING DATASETS
CONCATENATION
INTEREAVING
MERGE
UPDATE
MODIFY

FUNCTIONS

CHARACTER FUNCTIONS
NUMERIC FUNCTIONS
DATE FUNCTIONS

OTHERS MISSING CONCEPTS
REVIEW OF DATASTEP
EXAM & DISCUSSION

PROC STEP
UTILITY PROCEDURES
PROC CONTENTS
PROC COPY
PROC SETINIT
PROC DELETE
PROC PWENCODE
PROC APPEND
PROC SORT
PROC DATASETS
PROC OPTIONS
PROC COMPARE
PROC TRANSPOSE
PROC RANK
PROC FORMAT
PROC IMPORT
PROC EXPORT
PROC CATALOG
PROC CPORT
PROC CIMPORT
PROC TEMPLATE
PROC MIGRATE
PROC FORMS
REVIEW OF UTILITY PROCEDURES

SAS/ACCESS
SQL PASS THRU QUERY (PROC SQL)
LIBNAME STATEMEN
PROC DBLOAD
PROC ACCESS
REVIEW OF ACCESS PROCEDURES

REPORTING PROCEDURES
PROC PRINT
PROC TABULATE
PROC REPORT
NULL REPORT (Data step Reporting)
REVIEW OF REPORTING PROCEDURES

SAS/STAT
BASIC FUNCTIONAL CLASSES OF STATISTICS
STATISTICAL PROCEDURES
PROC MEANS
PROC SUMMARY
PROC UNIVARIATE
PROC FREQ
PROC CORR

PROC REG
PROC ANOVA
PROC GLM
PROC TTEST
PROC LIFE TEST
PROC LIFEREG
PROC LOGISTICS
REVIEW OF STATS PROCEDURES

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SAS/MACROS

INTRODUCTION TO THE MACRO FACILITY
PURPOSE OF THE MACRO FACILITY
PROGRAM FLOW

MACRO VARIABLES

INTRODUCTION TO MACRO VARIABLES
AUTOMATIC MACRO VARIABLES
MACRO VARIABLE REFERENCES
USER-DEFINED MACRO VARIABLES
DELIMITING MACRO VARIABLE NAMES
DELETING MACRO VARIABLES
MACRO FUNCTIONS

MACRO DEFINITIONS

DEFINING AND CALLING A MACRO
MACRO PARAMETERS
MACRO STORAGE

DATA STEP AND SQL INTERFACES-

CREATING MACRO VARIABLES IN THE DATA STEP
INDIRECT REFERENCES TO MACRO VARIABLES
RETRIEVING MACRO VARIABLES IN THE DATA STEP
CREATING MACRO VARIABLES IN SQL

MACRO PROGRAMS

CONDITIONAL PROCESSING
PARAMETER VALIDATION
ITERATIVE PROCESSING
GLOBAL AND LOCAL SYMBOL TABLES

FRAMEWORK FOR DEVELOPING MACRO APPLICATIONS

DEBUGGING AND TROUBLESHOOTING
GENERATING CUSTOM MESSAGES
CREATING EFFICIENT MACROS
REVIEW OF MACROS

PERFORMANANCE TUNING CONCEPTS

TESTING/DEBUGGING TECHNIQUES

ERROR HANDLING

ADDITIONAL FEATURES BETWEEN SAS VERSIONS
CERTIFICATION CLASSES

DOMAIN SPECIFIC PROJECT
PRACTICE
CODING ON REAL TIME DATA
INTERVIEW QUESTIONS
RESUME PREPARATION
WRITTEN TESTS
MOCK INTERVIEWS

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SAS SQL

INTRODUCTION TO THE SQL PROCEDURE

WHAT IS SQL?
WHAT IS THE SQL PROCEDURE?
TERMINOLOGY
COMPARING PROC SQL WITH THE SAS DATA STEP

RETRIEVING DATA FROM A SINGLE TABLE

OVERVIEW OF THE SELECT STATEMENT
SELECTING COLUMNS IN A TABLE
CREATING NEW COLUMNS
SORTING DATA
RETRIEVING ROWS THAT SATISFY A CONDITION
SUMMARIZING DATA
GROUPING DATA
FILTERING GROUPED DATA
VALIDATING A QUERY

RETRIEVING DATA FROM MULTIPLE TABLES

INTRODUCTION
SELECTING DATA FROM MORE THAN ONE TABLE BY USING JOINS
USING SUBQUERIES TO SELECT DATA
WHEN TO USE JOINS AND SUBQUERIES
COMBINING QUERIES WITH SET OPERATORS
CREATING AND UPDATING TABLES AND VIEWS
INTRODUCTION
CREATING TABLES
INSERTING ROWS INTO TABLES
UPDATING DATA VALUES IN A TABLE
DELETING ROWS
ALTERING COLUMNS
CREATING AN INDEX
DELETING A TABLE
USING SQL PROCEDURE TABLES IN SAS SOFTWARE
CREATING AND USING INTEGRITY CONSTRAINTS IN A TABLE
CREATING AND USING PROC SQL VIEWS

PROGRAMMING WITH THE SQL PROCEDURE

INTRODUCTION
USING PROC SQL OPTIONS TO CREATE AND DEBUG QUERIES
IMPROVING QUERY PERFORMANCE
ACCESSING SAS SYSTEM INFORMATION USING DICTIONARY TABLES
USING PROC SQL WITH THE SAS MACRO FACILITY
FORMATTING PROC SQL OUTPUT USING THE REPORT PROCEDURE
ACCESSING A DBMS WITH SAS/ACCESS SOFTWARE
USING THE OUTPUT DELIVERY SYSTEM (ODS) WITH PROC SQL

PRACTICAL PROBLEM-SOLVING WITH PROC SQL

OVERVIEW
COMPUTING A WEIGHTED AVERAGE
COMPARING TABLES
OVERLAYING MISSING DATA VALUES
COMPUTING PERCENTAGES WITHIN SUBTOTALS
COUNTING DUPLICATE ROWS IN A TABLE
EXPANDING HIERARCHICAL DATA IN A TABLE
SUMMARIZING DATA IN MULTIPLE COLUMNS
CREATING A SUMMARY REPORT
CREATING A CUSTOMIZED SORT ORDER
CONDITIONALLY UPDATING A TABLE
UPDATING A TABLE WITH VALUES FROM ANOTHER TABLE
CREATING AND USING MACRO VARIABLES
USING PROC SQL TABLES IN OTHER SAS PROCEDURES