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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

ADVANCE/SAS

ARRAYS

COMBINING DATASETS
CONCATENATION
INTERLEAVING
MERGE
UPDATE
MODIFY

FUNCTIONS

CHARACTER FUNCTIONS
NUMERIC FUNCTIONS
DATE FUNCTIONS

OTHERS MISSING CONCEPTS
REVIEW OF DATA STEP
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

REVIEW OF STATS PROCEDURES

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**

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