
PROGRAM MODULES:

Detail program schedule is given below:

ADVANCED SAS :**Proc SQL****Chapter-1****Introduction to the SQL Procedure**

- What is SQL?
- What is the SQL Procedure?
- Terminology
- Comparing PROC SQL with the SAS DATA step
- Note about the Example Table

Chapter-2**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

Chapter-3**Retrieving Data from Multiple Tables**

- Introduction
- Selecting Data from More Than One Table by Using joins
- Using Sub queries to Select Data
- When to Use Joins and Sub queries
- Combining Queries with Set Operators

Chapter-4**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

Chapter-5**Programming with the SQL Procedure**

- Introduction
- Using Proc SQL Options to Create and Debug Quires
- Improving Query Performance
- Accessing SAS System Information Using DICTIONRY Tables
- Using Proc SQL with the SAS Macro Facility
- Formatting PROC SQL output Using the Report Procedure
- Accessing a DBMS with SAS/ ACCESS Software

Chapter-6**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