

VSAM For COBOL Programmers - Course Objectives

On successful completion of this course, the student, with the aid of the appropriate reference materials, should be able to:

1. Create and delete VSAM data sets, using Access Method Services (AMS)
2. Load VSAM data sets, using AMS REPRO or COBOL programs
3. Use the AMS PRINT command to list all or parts of a VSAM data set, and the AMS LISTCAT command to list all or part of a VSAM catalog
4. Use COBOL programs to process VSAM data sets
5. Create and use VSAM alternate indexes and paths.

VSAM For COBOL Programmers - Topical Outline

Day One

Introduction

- VSAM Space Concepts
- CI's and CA's
- ESDS, KSDS, RRDS, LSDS
- RBA's
- JCL for VSAM data sets
- Catalog Hierarchy

Entry Sequenced Data Sets (ESDS) and Access Method Services (AMS)

- ESDS Characteristics
- Introduction to AMS
- DEFINE CLUSTER, REPRO, PRINT, DELETE commands
- Computer Exercise: ESDS and AMS 56

Job Alternatives

- Single versus multiple steps and jobs
- JES2 vs JES3

Key Sequenced Data Sets (KSDS)

- Creating KSDSs — Overview
- KSDS Terms and Concepts
- Free Space
- CI splits and CA splits
- DEFINE CLUSTER for KSDS
- LISTCAT Command
- Computer Exercise: KSDS and AMS 84

VSAM and COBOL: An Introduction

- Defining VSAM files in a COBOL program
- File status items for VSAM files
- OPENing and CLOSEing VSAM files
- File Position Indicator
- File status processing concerns

COBOL and ESDS

- File Processing

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Day Two

COBOL and KSDS

File Processing

Computer Exercise: Processing a KSDS Randomly 153

Alternate Indexes

AIX Concepts

DEFINE AIX, BLDINDEX, DEFINE PATH Commands

Computer Exercise: AIX and AMS 188

Using Alternate Indexes in COBOL

Relative Record Data Sets (RRDS)

RRDS Concepts

Randomizing Algorithms

DEFINE CLUSTER for RRDS

COBOL and RRDS

File Processing

Variable Length Record RRDS Support

Computer Exercise: Random Processing of an RRDS 234

Extra exercise

Computer Exercise: COBOL and AIX (optional) 238