VSAM With Access Method Services - 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
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. Create and use VSAM alternate indexes and paths
5. Estimate the space required to hold a VSAM data set
6. Maintain data sets using the AMS commands REPRO, EXPORT, IMPORT, VERIFY, ALTER, and EXAMINE
7. Create and use Reusable data sets
8. Know where to look for clues to tune performance of VSAM data sets, and know which parameters to work with for such tuning
9. Be aware of certain advanced features such as Extended Format KSDS, Record Level Sharing (RLS), recoverable spheres, and the LOG and BWO options, all of which are only available when using SMS.

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VSAM With Access Method Services - 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 62

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 90

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Day Two

Alternate Indexes
- AIX Concepts
- DEFINE AIX, BLDINDEX, DEFINE PATH Commands
  - Computer Exercise: AIX and AMS 112

Relative Record Data Sets (RRDS)
- RRDS Concepts
- Randomizing Algorithms
- DEFINE CLUSTER for RRDS
- Variable Length Record RRDS Support

Data Set Space Estimates
- Lab Exercise: Calculate Data Set Size 133

Additional Topics
- Reusable data sets
- Backup and Recovery

AMS Support Facilities
- VERIFY
- EXPORT / IMPORT
- ALTER
- EXAMINE
  - Computer Exercise: EXPORT / IMPORT 155

Final Topics
- AMP JCL Parameter
- SMS - Storage Management Subsystem
- Performance Issues
- EAV / EAS

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