z/OS VSAM and Access Method Services

Duración: 4 Días  Código del Curso: SS83G  Método de Impartición: Curso Cerrado (In-Company)

Temario:
This course is designed to teach how to manage VSAM and non-VSAM data sets by coding and using the functions and features of the Access Method Services program, IDCAMS.
To reinforce the lecture material, machine exercises are provided that enable students to code and test selected IDCAMS commands such as DEFINE, REPRO, ALTER, and LISTCAT.
Learn to manage Virtual Storage Access Method (VSAM) and non-VSAM data sets. Particularly emphasize coding and using the functions of the IDCAMS program. Lab exercises enable you to code and test selected IDCAMS commands, such as DEFINE, REPRO, ALTER, and LISTCAT.
Hands-On Labs
Eight labs are included to address: IDCAMS commands, including ALTER, DEFINE, CLUSTER, EXPORT, IMPORT, EXAMINE, LISTCAT, REPRO, and PRINT  tuning VSAM and the VSAM buffers alternate indexes

Dirigido a:
This is an intermediate course for individuals who manage data sets using IDCAMS and VSAM.

Objetivos:
- Understand the structure and use of VSAM data sets or clusters
- Code IDCAMS commands to define and load VSAM clusters
- Code IDCAMS commands to define and load alternate indexes
- Code IDCAMS commands to list, alter, and delete catalog entries
- Code IDCAMS commands to print data sets
- Calculate the Direct Access Storage Device (DASD) space requirements for VSAM clusters
- Code the Job Control Language (JCL) for IDCAMS and programs which process VSAM clusters
- Use IDCAMS and JCL options to improve the performance of a VSAM job
- Reorganize, back up, and recover VSAM and non-VSAM data sets
- Interpret an IDCAMS listing of an Integrated Catalog Facility (ICF) catalog
- Select and use the appropriate documentation to utilize VSAM and IDCAMS

Prerrequisitos:
You should complete:
- z/OS Facilities (ES15)
- z/OS Job Control Language and Utilities (ES07) or
- Fundamental System Skills in z/OS (ES10)
- or have equivalent experience
Contenido:

- describe the structure, organization, and use of VSAM clusters
- discuss the use of the ICF catalog
- discuss the IDCAMS program
- explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
- describe the function of REPRO, PRINT and DELETE commands
- explain how buffer space may impact performance either positively or negatively
- explain how integrity and security is maintained
- explain the use of CI and CA FREESPACE
- explain the basic functions of the ALTER command
- describe the reasons for using an alternate index
- explain VSAM advanced functions, extended format data sets, and their major features
- describe the need for data set backup
- describe Data-In-Virtual (DIV)
- explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem
- explain techniques to conserve virtual storage by sharing buffers and control blocks
- describe the major functions of CICS VSAM recovery
- describe VSAM processing terminology
- explain the function of Control Intervals (CI) and Control Areas (CA)
- describe the purpose of CI splits and CA splits and how they are accomplished
- estimate DASD space requirements for various cluster types
- ICF catalogs
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- ICF catalogs
- describe the structure, purpose, and basic contents of the master catalog
- describe how the master catalog is located at initial program load (IPL) time
- discuss the structure, purpose, and basic contents of user catalogs
- create the ICF catalogs
- describe the catalog search
- discuss and create the two types of alias
- IDCAMS commands, part 1
- code the JCL to run IDCAMS
- code the DEFINE CLUSTER command to create specific VSAM data set organizations
- code the LISTCAT command to format and print entries from the catalog
- JCL for VSAM
- describe the additional JCL parameters that support VSAM clusters
- discuss the purpose of data class
- explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines
- IDCAMS commands, part 2
- use REPRO to load and back up a VSAM cluster
- use PRINT to print a VSAM cluster in various formats
- use DELETE to remove the catalog entry for the data set and scratch the data set from the volume
- describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements
- Buffering
- explain the use of data and index buffers in sequential processing and direct processing
- evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
- code the buffer keywords on the Dataset Definition (DD) statement
- VSAM integrity and security
- discuss the meaning and use of SHAREOPTIONS
- discuss the need for serialization of updates to a data set
- describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
- explain the impact of buffering and SHAREOPTION modifications
- explain VSAM record level sharing
- use the VSAM integrity and security
explain extended addressability
explain multivolume allocation options
explain compression
explain data stripping
Advanced functions and extended format
considerations
alternate indices
when opening a base cluster and associated HBACKDS / HRECOVER
explain the impact of SHAREOPTIONS Storage Management (DFSMShsm)
define and load an alternate index
directly and in alternate key sequence
index
SHAREOPTIONS and passwords
options for buffering, FREESPACE, SHAREOPTIONS and passwords
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options: RECOVERY, ERASE, VERIFY, and passwords
compare VSAM passwords with Resource Access Control Facility (RACF) security
Tuning
discuss the performance impact of cache
describe the space allocation process with KEYRANGES and multivolume data sets
explain the contents of an Index CI
explain how VSAM key compression works
IDCAMS ALTER
code the ALTER command to modify options for processing existing VSAM objects
code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords
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- explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
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- code the AMS commands for backup, recovery, and reorganization
- Linear Data Sets (LDS)
- explain the structure and use of LDS
- explain the use of the DIV macro to access LDS
- discuss candidates for LDS
- Management and problem analysis aids
- discuss tools used to identify and trace VSAM errors
- code the AMS EXAMINE command to test the structure of a Key Sequenced Data Set (KSDS)
- interpret EXAMINE output to determine how to recover from a KSDS structural error
- invoke the Generalized Trace Facility (GTF) to track VSAM-related events
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- discuss the advantages and disadvantages of Local Shared Resources (LSR)
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### Access Control Facility (RACF) security
- Tuning
- discuss the performance impact of cache
- describe the space allocation process with KEYRANGES and multivolume data sets
- explain the contents of an Index CI
- explain how VSAM key compression works
- IDCAMS ALTER
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- **Alternate indexes**
- discuss the basic contents of an alternate index
- use a PATH to process base cluster records directly and in alternate key sequence
- define and load an alternate index
- explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices
- explain programming and JCL considerations
- **Advanced functions and extended format data sets**
- explain data stripping
- explain compression
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- explain extended addressability
- explain system managed buffering
- explain partial space release
- explain space constraint relief
- Data set reorganization, backup, and recovery
- explain the advantages and disadvantages of REPRO
- explain the advantages and disadvantages of EXPORT / IMPORT
- explain the advantages and disadvantages of DFSMS Data Set Services (DFSMSdss) DUMP / RESTORE
- explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
- discuss backup frequency
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- code the AMS commands for backup, recovery, and reorganization
- Linear Data Sets (LDS)
- explain the structure and use of LDS
- explain the use of the DIV macro to access LDS
- discuss candidates for LDS
- Management and problem analysis aids
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Local and global shared resources

discuss the concept of shared resource pools

discuss the advantages and disadvantages of Local Shared Resources (LSR)

discuss the advantages and disadvantages of Global Shared Resources (GSR)

describe macros that control use and allocation of shared resources

discuss how to specify and monitor shared buffer allocation in CICS and Information Management System (IMS)

CICS VSAM recovery

explain the concept of transaction processing, backup, and recovery

describe and code modal commands to SHAREOPTIONS

determine processing options

discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages

describe JCL and programming requirements for COBOL, PL/I, and Assembler languages

discuss how the master catalog is located at initial program load (IPL) time

discuss the purpose of data class

discuss the assignment of data class through JCL and the Automatic Class Selection (ACS) routines

IDCAMS commands, part 1

code the JCL to run IDCAMS

code the DEFINE CLUSTER command to create specific VSAM data set organizations

code the LISTCAT command to format and print entries from the catalog

JCL for VSAM

describe the additional JCL parameters that support VSAM clusters

discuss the purpose of data class

explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines

IDCAMS commands, part 2

use REPRO to load and back up a VSAM cluster

describe the use of data and index buffers in sequential processing and direct processing

evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers

code the buffer keywords on the Dataset Definition (DD) statement

VSAM integrity and security

discuss the meaning and use of SHAREOPTIONS

discuss the need for serialization of
explain space constraint relief
explain system managed buffering
explain extended addressability
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explain compression
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data sets
Advanced functions and extended format considerations
explain programming and JCL
alternate indices
when opening a base cluster and associated alternate indices
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explain partial space release
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Data set reorganization, backup, and updates to a data set
describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
explain the impact of buffering and SHAREOPTION modifications
explain VSAM record level sharing
use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords
compare VSAM passwords with Resource Access Control Facility (RACF) security
Tuning
discuss the performance impact of cache
describe the space allocation process with KEYRANGES and multivolume data sets
explain the contents of an Index CI
explain how VSAM key compression works
IDCAMS ALTER
code the ALTER command to modify options for processing existing VSAM objects
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Alternate indexes
discuss the basic contents of an alternate index
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discuss the use of the ICF catalog
discuss the IDCAMS program
explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
describe the function of REPRO, PRINT and DELETE commands
explain how buffer space may impact performance either positively or negatively
explain how integrity and security is maintained
explain the use of CI and CA FREESPACE
explain the basic functions of the ALTER command
describe the reasons for using an alternate index
explain VSAM advanced functions, extended format data sets, and their major features
describe the need for data set backup
describe Data-In-Virtual (DIV)
explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem
explain techniques to conserve virtual storage by sharing buffers and control blocks
describe the major functions of CICS VSAM recovery
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Linear Data Sets (LDS)
explain the structure and use of LDS
explain the use of the DIV macro to access LDS
discuss candidates for LDS
Management and problem analysis aids
discuss tools used to identify and trace VSAM errors
code the AMS EXAMINE command to test the structure of a Key Sequenced Data Set (KSDS)
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- explain the advantages and disadvantages of EXPORT / IMPORT
- explain the advantages and disadvantages of DFSMS Data Set Services (DFSMSSdss) DUMP / RESTORE
- explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
- discuss backup frequency
- Data Set (KSDS)
- interpret EXAMINE output to determine how to recover from a KSDS structural error
- invoke the Generalized Trace Facility (GTF) to track VSAM-related events
- invoke utilities to print GTF trace output
- Local and global shared resources
- discuss the concept of shared resource pools
- discuss the advantages and disadvantages of Local Shared Resources (LSR)
- discuss the advantages and disadvantages of Global Shared Resources (GSR)
- describe macros that control use and allocation of shared resources
- discuss how to specify and monitor shared buffer allocation in CICS and Information Management System (IMS)
- CICS VSAM recovery
- explain the concept of transaction processing, backup, and recovery
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- Application coding considerations
- define various VSAM processing options
- explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options
- discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages
- describe JCL and programming requirements for COBOL, PL/I, and Assembler languages
- explain the function of Control Intervals (CI) and Control Areas (CA)
- describe the purpose of CI splits and CA splits and how they are accomplished
- estimate DASD space requirements for various cluster types
- ICF catalogs
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- describe the catalog search
- discuss and create the two types of alias
- IDCAMS commands, part 1
- code the JCL to run IDCAMS
- code the DEFINE CLUSTER command to create specific VSAM data set organizations
- code the LISTCAT command to format and print entries from the catalog
- JCL for VSAM
- describe the additional JCL parameters that support VSAM clusters
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- explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines
- IDCAMS commands, part 2
- use REPRO to load and back up a VSAM cluster
- use PRINT to print a VSAM cluster in various formats
- use DELETE to remove the catalog entry for the data set and scratch the data set from the volume
- describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements
- Buffering
- explain the use of data and index buffers in sequential processing and direct processing
- evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
- code the buffer keywords on the Dataset Definition (DD) statement
- VSAM integrity and security
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- discuss the need for serialization of updates to a data set
- describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
- explain the impact of buffering and SHAREOPTION modifications
- explain VSAM record level sharing
- use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords
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- Tuning
- discuss the performance impact of cache
- describe the space allocation process with KEYRANGES and multivolume data sets
- explain the contents of an Index CI
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- IDCAMS ALTER
- code the ALTER command to modify options for processing existing VSAM objects
- code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords
- Alternate indexes
- discuss the basic contents of an alternate index
- use a PATH to process base cluster records directly and in alternate key sequence
- define and load an alternate index
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- Data set reorganization, backup, and recovery
- explain how to implement and manage buffers
- IDCAMS ALTER
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- explain how to implement and manage CICS VSAM recovery
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- Advanced functions and extended format data sets
- explain data stripping
- explain compression
- explain multivolume allocation options
- explain extended addressability
- explain system managed buffering
- explain partial space release
- explain space constraint relief
- Data set reorganization, backup, and recovery
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- explain the concept of transaction processing, backup, and recovery
- explain how to implement and manage CICS VSAM recovery
- Application coding considerations
- define various VSAM processing options
discuss the basic contents of an alternate Information Management System (IMS) objects
- define and load an alternate index
- explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices
- explain programming and JCL considerations
- Advanced functions and extended format data sets
- explain data stripping
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- explain system managed buffering
- explain partial space release
- explain space constraint relief
- explain the use of RESERVE, RECOVER, and recovery
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- describe the structure, organization, and use of VSAM clusters
- discuss the use of the IDCAMS program
- explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
- describe the function of REPRO, PRINT and DELETE commands
- explain how buffer space may impact performance either positively or negatively
- explain how integrity and security is maintained
- explain the use of CI and CA FREESPACE
- explain the basic functions of the ALTER command
- describe the reasons for using an alternate index
- explain VSAM advanced functions, extended format data sets, and their major features
- describe the need for data set backup
- describe Data-In-Virtual (DIV)
- explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem
- explain techniques to conserve virtual storage by sharing buffers and control blocks
- describe the major functions of CICS VSAM recovery
- describe VSAM processing terminology
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- create the ICF catalogs
- describe the catalog search
- discuss and create the two types of alias
explain the concept of transaction processing, backup, and recovery

explain how to implement and manage CICS VSAM recovery

Application coding considerations

define various VSAM processing options

explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options

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ICF catalogs

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IDCAMS commands, part 1

code the JCL to run IDCAMS

code the DEFINE CLUSTER command to create specific VSAM data set organizations

code the LISTCAT command to format and print entries from the catalog

JCL for VSAM

describe the additional JCL parameters that support VSAM clusters

discuss the purpose of data class

explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines

IDCAMS commands, part 2

use REPRO to load and back up a VSAM cluster

use PRINT to print a VSAM cluster in various formats

use DELETE to remove the catalog entry for the data set and scratch the data set from the volume

describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements

Buffering

explain the use of data and index buffers in sequential processing and direct processing

evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers

code the buffer keywords on the Dataset Definition (DD) statement

VSAM integrity and security

discuss the meaning and use of SHAREOPTIONS

discuss the need for serialization of updates to a data set

describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments

explain the impact of buffering and SHAREOPTION modifications

explain VSAM record level sharing

use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords

compare VSAM passwords with Resource Access Control Facility (RACF) security

Tuning

discuss the performance impact of cache

describe the space allocation process with KEYRANGES and multivolume data sets

explain the contents of an Index CI

explain how VSAM key compression works

IDCAMS ALTER

code the ALTER command to modify options for processing existing VSAM objects

code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords

Alternate indexes

discuss the basic contents of an alternate index
VSAM recovery
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- Alternate indexes
- discuss the basic contents of an alternate index
- use a PATH to process base cluster records directly and in alternate key sequence
- define and load an alternate index
- explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices
- explain programming and JCL considerations
- Advanced functions and extended format data sets
- explain data stripping
- explain compression
- explain multivolume allocation options
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- code the AMS commands for backup, recovery, and reorganization
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- describe macros that control use and allocation of shared resources
- discuss how to specify and monitor shared buffer allocation in CICS and Information Management System (IMS)
use a PATH to process base cluster records (CI) and Control Areas (CA)

SHAREOPTIONS and passwords
code the ALTER command to modify requirements for COBOL, PL/I, and
options for processing existing VSAM Assembler languages
code the ALTER command to modify Programming Language One (PL/I), and
IDCAMS ALTER
explain how VSAM key compression works
explain the contents of an Index CI
KEYRANGES and multivolume data sets
describe the space allocation process with parameter s, and program definitions that
discuss the performance impact of cache
Access Control Facility (RACF) security
code the buffer keywords on the Dataset pools
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evaluate the use of JCL Access Method Services (AMS) statements
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explain the concept of transaction options: RECOVERY, ERASE, VERIFY, of DFSMS Data Set Services (DFSMSdss)

CICS VSAM recovery

Management System (IMS)

buffer allocation in CICS and Information SHAREOPTION modifications

discuss how to specify and monitor shared allocation of shared resources

describe macros that control use and multisystem recovery

discuss the concept of shared resource Local and global shared resources

discuss candidates for LDS Management and problem analysis aids

discuss tools used to identify and trace VSAM errors

code the AMS EXAMINE command to test the structure of a Key Sequenced Data Set (KSDS)

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Buffering

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VSAM integrity and security

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compare VSAM passwords with Resource Access Control Facility (RACF) security

Tuning

discuss the performance impact of cache

describe the space allocation process with KEYRANGES and multivolume data sets

explain the contents of an Index CI

explain how VSAM key compression works

IDCMS ALTER

code the ALTER command to modify options for processing existing VSAM objects

code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords

Alternate indexes

discuss the basic contents of an alternate index

use a PATH to process base cluster records directly and in alternate key sequence

define and load an alternate index

explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices

explain programming and JCL considerations

Advanced functions and extended format data sets

explain data stripping

explain compression

explain multivolume allocation options

explain extended addressability

explain system managed buffering

explain partial space release

explain space constraint relief

Data set reorganization, backup, and recovery

explain the advantages and disadvantages of REPRO

explain the advantages and disadvantages of EXPORT / IMPORT

explain the advantages and disadvantages of DFSMS Data Set Services (DFSMSdss) DUMP / RESTORE

explain the advantages and disadvantages of DFSMS Hierarchical Storage
Cardinal Entry Solution 

- Application coding considerations
- define various VSAM processing options
- explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options
- discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages
- describe JCL and programming requirements for COBOL, PL/I, and Assembler languages
- explain the function of Control Intervals (CI) and Control Areas (CA)
- describe the purpose of CI splits and CA splits and how they are accomplished
- estimate DASD space requirements for various cluster types
- ICF catalogs
- describe the structure, purpose, and basic contents of the master catalog
- describe how the master catalog is located at initial program load (IPL) time
- discuss the structure, purpose, and basic contents of user catalogs
- create the ICF catalogs
- describe the catalog search
- discuss and create the two types of alias
- IDCAMS commands, part 1
- code the JCL to run IDCAMS
- code the DEFINE CLUSTER command to create specific VSAM data set organizations
- code the LISTCAT command to format and print entries from the catalog
- JCL for VSAM
- describe the additional JCL parameters that support VSAM clusters
- discuss the purpose of data class
- explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines
- IDCAMS commands, part 2
- use REPRO to load and back up a VSAM cluster
- use PRINT to print a VSAM cluster in various formats
- use DELETE to remove the catalog entry for the data set and scratch the data set from the volume
- describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements
- Buffering
- explain the use of data and index buffers in sequential processing and direct processing
- evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
- code the buffer keywords on the Dataset Definition (DD) statement
- VSAM integrity and security
- discuss the meaning and use of
- Security
- Tuning
- discuss the performance impact of cache
- describe the space allocation process with KEYRANGES and multivolume data sets
- explain the contents of an Index CI
- explain how VSAM key compression works
- IDCAMS ALTER
- code the ALTER command to modify options for processing existing VSAM objects
- code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords
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- explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
- discuss backup frequency
- determine when reorganization is required
- code the AMS commands for backup, recovery, and reorganization
- Linear Data Sets (LDS)
- explain the structure and use of LDS
- explain the use of the DIV macro to access LDS
- discuss candidates for LDS
- Management and problem analysis aids
- discuss tools used to identify and trace VSAM errors
- code the AMS EXAMINE command to test the structure of a Key Sequenced Data Set (KSDS)
- interpret EXAMINE output to determine how to recover from a KSDS structural error
- invoke the Generalized Trace Facility (GTF) to track VSAM-related events
- invoke utilities to print GTF trace output
- Local and global shared resources
- discuss the concept of shared resource pools
- discuss the advantages and disadvantages of Local Shared Resources (LSR)
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- discuss the IDCAMS program
- explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
- explain the function of REPRO, PRINT and DELETE commands
- explain how buffer space may impact performance either positively or negatively
- explain how integrity and security is maintained
- explain the use of CI and CA
- FREESPACE
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- describe the reasons for using an alternate index
- explain VSAM advanced functions, extended format data sets, and their major features
- describe the need for data set backup
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describe the function of REPRO, PRINT and DELETE commands
explain how buffer space may impact performance either positively or negatively
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JCL for VSAM
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discuss the purpose of data class
explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines
IDCAMS commands, part 2
use REPRO to load and back up a VSAM cluster
use PRINT to print a VSAM cluster in various formats
use DELETE to remove the catalog entry
Resource (LSR)
discuss the advantages and disadvantages of Global Shared Resources (GSR)
discuss how to specify and monitor shared buffer allocation in CICS and Information Management System (IMS)
CICS VSAM recovery
explain the concept of transaction processing, backup, and recovery
explain how to implement and manage CICS VSAM recovery
Application coding considerations
define various VSAM processing options
explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options
discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages
describe JCL and programming requirements for COBOL, PL/I, and Assembler languages
explain the function of Control Intervals (CI) and Control Areas (CA)
describe the purpose of CI splits and CA splits and how they are accomplished
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explain extended addressability
explain system managed buffering
explain partial space release
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Data set reorganization, backup, and recovery
explain the advantages and disadvantages of REPRO
explain the advantages and disadvantages of EXPORT / IMPORT
explain the advantages and disadvantages of DFSMS Data Set Services (DFSMsdss) DUMP / RESTORE
explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
discuss backup frequency
determine when reorganization is required
code the AMS commands for backup, recovery, and reorganization
Linear Data Sets (LDS)
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explain the use of the DIV macro to access LDS
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Management and problem analysis aids
discuss tools used to identify and trace VSAM errors
code the AMS EXAMINE command to test the structure of a Key Sequenced Data Set (KSDS)
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use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords
- compare VSAM passwords with Resource Access Control Facility (RACF) security
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define and load an alternate index
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Data set reorganization, backup, and recovery
evaluate the use of JCL Access Method requirements for COBOL, PL/I, and Assembler languages
- Evaluate
discuss the structure, purpose, and basic contents of the master catalog
describe how the master catalog is located at initial program load (IPL) time
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explain the use of data and index buffers in sequential processing and direct processing
evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
code the buffer keywords on the Dataset Definition (DD) statement
- VSAM integrity and security
discuss the meaning and use of SHAREOPTIONS
discuss the need for serialization of updates to a data set
describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
- Interchange Buffering
explain the impact of buffering and SHAREOPTION modifications
- VSAM record level sharing
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### Advanced functions and extended format considerations

- Explain extended addressability
- Explain multivolume allocation options
- Explain data stripping

### Alternative indices

- When opening a base cluster and associated buffers
- Explain the impact of SHAREOPTIONS Parameters (AMP) keywords to manage splits and how they are accomplished
- Define and load an alternate index directly and in alternate key sequence
- Use a PATH to process base cluster records in sequential processing and direct processing

### Alternate indexes

- Shareoptions and passwords
- Options for buffering, FREESPACE, provide for conditional execution of requirements for COBOL, PL/I, and code the ALTER command to modify objects
- Options for processing existing VSAM for the data set and scratch the data set
- Programming Language One (PL/I), and Assembler languages
- Describe JCL and programming requirements for COBOL, PL/I, and Assembler languages

### Alternate indexes

- Describe how ENQ/DEQ macros are used to serialize data set updates to a data set
- Describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
- Explain the impact of buffering and SHAREOPTION modifications
- Explain VSAM record level sharing
- Use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords
- Compare VSAM passwords with Resource Access Control Facility (RACF) security

### Buffering

- Estimate DASD space requirements for
- Determine processing options
- Describe and code modal commands to (CI) and Control Areas (CA)
- Describe the purpose of CI splits and CA splits and how they are accomplished
- Estimate DASD space requirements for various cluster types

### Buffers

- Explain the use of data and index buffers in sequential processing and direct processing
- Evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
- Code the buffer keywords on the Dataset located at initial program load (IPL) time
- Discuss the structure, purpose, and basic contents of user catalogs
- Create the ICF catalogs
- Describe the catalog search
- Discuss and create the two types of alias

### Buffering

- Describe the space allocation process with KEYRANGES and multivolume data sets
- Explain the contents of an Index CI
- Explain how VSAM key compression works
- IDCMS ALTER
- Code the ALTER command to modify options for processing existing VSAM objects
- Code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords
- Alternate indexes
- Discuss the basic contents of an alternate index
- Use a PATH to process base cluster records directly and in alternate key sequence
- Define and load an alternate index
- Explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices
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### Buffers

- Explain how to implement and manage
- CICS VSAM recovery
- Application coding considerations
- Define various VSAM processing options
- Explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options
- Discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages
- Describe JCL and programming requirements for COBOL, PL/I, and Assembler languages

### Buffers

- Explain the function of Control Intervals (CI) and Control Areas (CA)
- Describe the purpose of CI splits and CA splits and how they are accomplished
- Estimate DASD space requirements for various cluster types
- ICF catalogs
- Describe the structure, purpose, and basic contents of the master catalog
- Describe how the master catalog is located at initial program load (IPL) time
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### Buffers

- Explain the impact of buffering and SHAREOPTION modifications
- Explain VSAM record level sharing
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- Create the ICF catalogs
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Data set reorganization, backup, and recovery
determine when reorganization is required
code the AMS commands for backup, recovery, and reorganization
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explain the use of the DIV macro to access LDS
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IDCAMS ALTER
code the ALTER command to modify options for processing existing VSAM objects
describe the structure, organization, and use of VSAM clusters
discuss the use of the IDCAMS program
explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
describe the function of REPRO, PRINT, and DELETE commands
explain how buffer space may impact performance either positively or negatively
explain how integrity and security is maintained
explain the use of CI and CA FREESPACE
describe the basic functions of the ALTER command
describe the reasons for using an alternate index
explain VSAM advanced functions, extended format data sets, and their major features
describe the need for data set backup
describe Data-In-Virtual (DIV)
explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem
explain techniques to conserve virtual storage by sharing buffers and control blocks
describe the major functions of CICS VSAM recovery
describe VSAM processing terminology

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1. IDCAMS commands, part 2
   - use REPLO to load and back up a VSAM cluster
   - use PRINT to print a VSAM cluster in various formats
   - use DELETE to remove the catalog entry for the data set and scratch the data set from the volume
   - describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements
   - Buffering
   - explain the use of data and index buffers in sequential processing and direct processing
   - evaluate the use of JCL Access Method Parameters (AMP) keywords to manage buffers
   - code the buffer keywords on the Dataset Definition (DD) statement
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   - discuss the meaning and use of SHAREOPTIONS
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   - explain the impact of buffering and SHAREOPTION modifications
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   - describe the catalog search
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   - IDCAMS ALTER
   - code the ALTER command to modify options for processing existing VSAM

2. Buffer allocation in CICS and Information Management System (IMS)

3. CICS VSAM recovery

4. explain the concept of transaction processing, backup, and recovery

5. explain how to implement and manage CICS VSAM recovery

6. Application coding considerations

7. define various VSAM processing options

8. explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options

9. discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages

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32. use DELETE to remove the catalog entry for the data set and scratch the data set from the volume

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- describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
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explain how integrity and security is maintained
explain the use of CI and CA FREESPACE
explain the basic functions of the ALTER command
describe the reasons for using an alternate index
explain VSAM advanced functions, extended format data sets, and their major features
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- discuss the use of the ICF catalog
- discuss the IDCAMS program
- explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
- describe the function of REPRO, PRINT and DELETE commands
- explain how buffer space may impact performance either positively or negatively
- explain how integrity and security is maintained
- explain the use of CI and CA FREESPACE
- explain the basic functions of the ALTER command
- describe the reasons for using an alternate index
- explain VSAM advanced functions, extended format data sets, and their major features
- describe the need for data set backup
- describe Data-In-Virtual (DIV)
- explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem
- explain techniques to conserve virtual storage by sharing buffers and control blocks
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Based on the provided text, the document appears to be a comprehensive guide on VSAM integrity and security, covering various aspects such as the structure, purpose, and basic contents of the master catalog, VSAM processing terminology, and the use of various commands and options in VSAM. It also discusses the impact of various factors on processing, such as buffer space and the assignment of data classes. The document is likely intended for users who are already familiar with VSAM and want to deepen their understanding of its various aspects and best practices.
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- explain the concept of transaction processing, backup, and recovery
- explain how to implement and manage CICS VSAM recovery

Application coding considerations
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- explain the merge of catalog entries, JCL parameters, and program definitions that determine processing options
- discuss VSAM programming support, and JCL requirements in Common Business Oriented Language (COBOL), Programming Language One (PL/I), and Assembler languages
- describe JCL and programming requirements for COBOL, PL/I, and Assembler languages

- describe the structure, organization, and use of VSAM clusters
- discuss the use of the ICF catalog
- discuss the IDCAMS program
- explain creation and deletion of VSAM clusters using JCL and the DFSMS data class facility
- describe the function of REPRO, PRINT and DELETE commands
- explain how buffer space may impact performance either positively or negatively
- explain how integrity and security is maintained
- explain the use of CI and CA FREESPACE
- explain the basic functions of the ALTER command
- describe the reasons for using an alternate index
- Explain VSAM advanced functions, extended format data sets, and their major features.
- Describe the need for data set backup.
- Describe Data-In-Virtual (DIV).
- Explain the use of the DCOLLECT command to gather management and planning information about the storage subsystem.
- Explain techniques to conserve virtual storage by sharing buffers and control blocks.
- Describe the major functions of CICS VSAM recovery.
- Describe VSAM processing terminology.

- Explain the function of Control Intervals (CI) and Control Areas (CA).
- Describe the purpose of CI splits and CA splits and how they are accomplished.
- Estimate DASD space requirements for various cluster types.
- Describe the structure, purpose, and basic contents of the master catalog.
- Describe how the master catalog is located at initial program load (IPL) time.
- Discuss the structure, purpose, and basic contents of user catalogs.
- Create the ICF catalogs.
- Describe the catalog search.
- Discuss and create the two types of alias.
- IDCAMS commands, part 1.
  - Code the JCL to run IDCAMS.
  - Code the DEFINE CLUSTER command to create specific VSAM data set organizations.
  - Code the LISTCAT command to format and print entries from the catalog.
- JCL for VSAM.
  - Describe the additional JCL parameters that support VSAM clusters.
  - Discuss the purpose of data class.
  - Explain the assignment of data class through JCL and the Automatic Class Selection (ACS) routines.
- IDCAMS commands, part 2.
  - Use REPRO to load and back up a VSAM cluster.
  - Use PRINT to print a VSAM cluster in various formats.
  - Use DELETE to remove the catalog entry for the data set and scratch the data set from the volume.
  - Describe and code modal commands to provide for conditional execution of Access Method Services (AMS) statements.
- Buffering.
  - Explain the use of data and index buffers in sequential processing and direct processing.
  - Evaluate the use of JCL Access Method Parameters (AMP) keywords to manage.
buffers
- code the buffer keywords on the Dataset Definition (DD) statement
- VSAM integrity and security
- discuss the meaning and use of SHAREOPTIONS
- discuss the need for serialization of updates to a data set
- describe how ENQ/DEQ macros are used to serialize data set updates in multiregion and multisystem environments
- explain the impact of buffering and SHAREOPTION modifications
- explain VSAM record level sharing
- use the VSAM integrity and security options: RECOVERY, ERASE, VERIFY, and passwords
- compare VSAM passwords with Resource Access Control Facility (RACF) security
- Tuning
- discuss the performance impact of cache
- describe the space allocation process with KEYRANGES and multivolume data sets
- explain the contents of an Index CI
- explain how VSAM key compression works
- IDCAMS ALTER
- code the ALTER command to modify options for processing existing VSAM objects
- code the ALTER command to modify options for buffering, FREESPACE, SHAREOPTIONS and passwords
- Alternate indexes
- discuss the basic contents of an alternate index
- use a PATH to process base cluster records directly and in alternate key sequence
- define and load an alternate index
- explain the impact of SHAREOPTIONS when opening a base cluster and associated alternate indices
- explain programming and JCL considerations
- Advanced functions and extended format data sets
- explain data stripping
- explain compression
- explain multivolume allocation options
- explain extended addressability
- explain system managed buffering
- explain partial space release
- explain space constraint relief
- Data set reorganization, backup, and recovery
- explain the advantages and disadvantages of REPRO
- explain the advantages and disadvantages of EXPORT / IMPORT
- explain the advantages and disadvantages of DFSMS Data Set Services (DFSMSdss) DUMP /
RESTORE
- explain the advantages and disadvantages of DFSMS Hierarchical Storage Management (DFSMShsm) HBACKDS / HRECOVER
- discuss backup frequency
- determine when reorganization is required
- code the AMS commands for backup, recovery, and reorganization
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