

Appendix
B

WORKSHOP

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Fast Track!*



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1 VSAM Definitions and Concepts

1. A circular area on the disk, accessible to a single read/write head is a _____.
2. The time it takes for the disk to be physically positioned for the record to be under the head is _____.
3. IDCAMS functional commands can be conditionally invoked with IDCAMS _____ commands.
4. The IDCAMS command used to copy datasets, convert ISAM and SAM datasets to VSAM, backup VSAM catalogs, read backup copies of catalogs, and copy catalogs is _____.
5. VSAM datasets can be used in batch and _____ programs.
6. Content of a field in the same place, for the same length, in each record; independent of the physical location of the record in the dataset is a _____ key.
7. Displacement in bytes to the first byte of a record from the beginning of the dataset is a _____ address.
8. _____ dataset records stored in the sequence in which they are added or loaded.
9. _____ dataset consists of string of fixed-length slots, which may or may not contain records.
10. _____ cluster consists of a data component and index component.

2 VSAM Organization

1. The _____ is the basic unit of information transferred by VSAM between main and peripheral storage.
2. A _____ contains one or more logical records, unused space, and control information.
3. Control Intervals are grouped by VSAM into _____.
4. CIDF is _____ bytes long.
5. RDF is _____ bytes long.
6. The _____ of a base cluster consists of those alternate indexes which are to be updated when the base cluster is updated.
7. The _____ of a base cluster consists of those alternate indexes which are to be updated when the base cluster is updated.
8. The updating of alternate indexes will be performed automatically by VSAM if the _____ option is specified when the alternate index is defined.
9. A KSDS is a cluster consisting of an index component and a _____ component.
10. VSAM builds a sufficient number of index levels in order that the highest level index has only _____ record.

3 Application Programming

1. Create this KSDS VSAM dataset:

Dataset Name	uid.PROJECT.VSAM
Key Length	5
Key Position	1
Organization	KSDS
Record Layout	
PROJECT ID	X(5) Primary Key
PROJECT NAME	X(25)
PROJECT MANAGER ID	X(9)

Code the IDCAMS commands to create and load the above VSAM dataset.

Code a program that accepts a PROJECT ID from a QSAM dataset, reads the associated record and displays the PROJECT NAME. Access is to be random using the primary key PROJECT ID. There are no alternate keys on the dataset.

If the PROJECT ID is not in the VSAM dataset, display an appropriate message.

4 Alternate Indexes and Paths

1. Use the KSDS VSAM dataset from the previous exercise and create an alternate index:

Dataset Name	uid.PROJECT.VSAM
Alternate Key Length	9
Alternate Key Position	31
Organization	KSDS/AIX with UPGRADE and NONUNIQUE
Record Layout	
PROJECT ID	X(5) Primary Key
PROJECT NAME	X(25)
PROJECT MANAGER ID	X(9) Alternate Key

Code the IDCAMS commands to create the AIX, build the index and create a PATH.

Code a program that accepts a Project Manager ID from a QSAM dataset, read the associated record and displays the Project Name. Access is to be random using the alternate key Project Manager ID.

If the Project Manager ID is not in the VSAM dataset, display an appropriate message.

5 New VSAM Features

1.	From a _____ application interface, RLS can be transparent.	
	a) Batch	b) ALC
	c) CICS	d) a and b.
	e) a, b and c.	

2.	The combination of VSAM RLS locking and CICS logging and backout provides the transactional _____ for CICS applications.	
	a) startup	b) recovery
	c) SYNCPOINTS	d) ROLLBACK
	e) All of the above.	

3.	A _____ will be released as soon as the record is modified; it is not held until end-of-transaction.	
	a) latch	b) schema
	c) record lock	d) a and b.
	e) a, b and c.	

4.	VSAM RLS permits a non-CICS address space to OPEN for _____ a recoverable dataset.	
	a) INPUT	b) OUTPUT
	c) EXTEND	d) a and b.
	e) a, b and c.	

5.	When a sphere is accessed in RLS mode, the _____ do not apply.	
	a) ERASE	b) WRITE
	c) INDEXED	d) SHAREOPTIONS
	e) None of the above.	