

Database Questions and Answers – Buffer Management

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This set of Database Multiple Choice Questions & Answers (MCQs) focuses on "Buffer Management".

- 1. In order to reduce the overhead in retrieving the records from the storage space we use
- a) Logs
- b) Log buffer
- c) Medieval space
- d) Lower records

View Answer

Answer: b

Explanation: The output to stable storage is in units of blocks.

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2. The order of log records in the stable storage	as the order in which they were written
to the log buffer.	

- a) Must be exactly the same
- b) Can be different
- c) Is opposite
- d) Can be partially same

View Answer

Answer: a

Explanation: As a result of log buffering, a log record may reside in only main memory (volatile storage) for a considerable time before it is output to stable storage.

- 3. Before a block of data in main memory can be output to the database, all log records pertaining to data in that block must have been output to stable storage. This is
- a) Read-write logging
- b) Read-ahead logging
- c) Write-ahead logging
- d) None of the mentioned

View Answer

Answer: c

Explanation: The WAL rule requires only that the undo information in the log has been output to stable storage, and it permits the redo information to be written later.

- 4. Writing the buffered log to ______ is sometimes referred to as a log force.
- a) Memory
- b) Backup
- c) Redo memory

d) Disk

View Answer

Answer: d

Explanation: If there are insufficient log records to fill the block, all log records in main memory are combined into a partially full block and are output to stable storage.

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5. The	policy, allows a transaction to commit even if it has modified some blocks that
have not yet been w	written back to disk.
a) Force	
b) No-force	
c) Steal	
d) No-steal	
View Answer	
Answer: b	force policy allows faster commit of transactions.
Explanation, No-	force policy allows faster confirm of transactions.
	licy allows multiple updates to accumulate on a block before it is output to stable reduce the number of output operations greatly for frequently updated blocks.
a) Force	^
b) No-force	
c) Steal	

d) No-steal

View Answer

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Answer: b	
Explanation: N	lo-force policy allows faster commit of transactions.
	_ policy, allows the system to write modified blocks to disk even if the transactions modifications have not all committed.
Answer: c Explanation: T updates.	The no-steal policy does not work with transactions that perform a large number of
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8. Locks on buffer blocks are unrelated to locks used for concurrency-control of transactions, and releasing them in a non-two-phase manner does not have any implications on transaction serializability. This is

- a) Latches
- b) Swap Space
- c) Dirty Block
- d) None of the mentioned

View Answer

Answer: a

Explanation: These locks, and other similar locks that are held for a short duration.

- 9. The _____ contains a list of blocks that have been updated in the database buffer.
- a) Latches
- b) Swap Space
- c) Dirty Block
- d) None of the mentioned

View Answer

Answer: c

Explanation: Dirty blocks are those that have been updated in memory, and the disk version is not up-to-date.

- 10. The operating system reserves space on disk for storing virtual-memory pages that are not currently in main memory; this space is called
- a) Latches
- b) Swap Space
- c) Dirty Block
- d) None of the mentioned

View Answer

Answer: b

Explanation: Almost all current-generation operating systems retain complete control of virtual memory.

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