

Database	Questions	and Answers	- ARIES
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This set of Database Multiple Choice Questions & Answers (MCQs) focuses on "ARIES".				
1. ARIES uses a  a) Log sequence number b) Log number c) Lock number d) Sequence  View Answer	to identify log records, and stores it in database pages.			
Answer: b Explanation: LSN is used	d to identify which operations have been applied to a database page.			
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2. ARIES supports operations, which are physical in	that the affected page is physically
identified, but can be logical within the page.	
a) Physiological redo	
b) Physiological undo	
c) Logical redo	
d) Logical undo	
View Answer	
Answer: a	
Explanation: The deletion of a record from a page may resubeing shifted, if a slotted page structure is used.	lt in many other records in the page
3 is used to minimize unnecessary redos during r	ecovery.
a) Dirty page table	
b) Page table	
c) Dirty redo	
d) All of the mentioned	
View Answer	
Answer: a	
Explanation: Dirty pages are those that have been updated in up-to-date.	memory, and the disk version is not
4 scheme that records only information about dirt and does not even require of writing dirty pages to disk. a) Fuzzy logic	y pages and associated information
b) Checkpoints	
c) Fuzzy-checkpoint	•
d) Logical checkpoint	
View Answer	

Answer: c

Explanation: It flushes dirty pages in the background, continuously, instead of writing them during checkpoints.

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5. Whenev	er an update o	operation	occurs on	a page,	the operatior	stores	the LSN	of its log	record in
the	field of the pa	age.							

- a) LSN
- b) ReadLSN
- c) PageLSN
- d) RedoLSN

View Answer

Answer: c

Explanation: Each page maintains an identifier called the PageLSN.

6. There are special redo-only log records generated during transaction rollback, called \_\_\_\_\_ in ARIES.

- a) Compensation log records
- b) Read log records
- c) Page log records
- d) Redo log records

View Answer

Answer: a

Explanation: These serve the same purpose as the redo-only log records in our earlier recovery

scheme.	
7. Thea) Dirty page table b) Page table c) Dirty redo d) All of the mentioned	contains a list of pages that have been updated in the database buffer.
View Answer	
Answer: a Explanation: Dirty pag up-to-date.	ges are those that have been updated in memory, and the disk version is not
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8. \_\_\_\_\_ determines which transactions to undo, which pages were dirty at the time of the crash, and the LSN from which the redo pass should start.

- a) Analysis pass
- b) Redo pass
- c) Undo pass
- d) None of the mentioned

View Answer

Answer: a

Explanation: The analysis pass finds the last complete checkpoint log record, and reads in the DirtyPageTable from this record.

	_ starts from a position determined during analysis, and performs a redo, repeating
-	bring the database to a state it was in before the crash.
a) Analysis	pass
b) Redo pa	SS
c) Undo pa	SS
d) None of	the mentioned
View Ans	swer
Answer:	b
Explanat	ion: The redo pass repeats history by replaying every action that is not already reflected
-	ge on disk.
10	rolls back all transactions that were incomplete at the time of crash.
a) Analysis	pass
b) Redo pa	SS
c) Undo pa	SS
d) None of	the mentioned
View Ans	swer
Answer:	C
Explanat	ion: It performs a single backward scan of the log, undoing all transactions in undo-list.
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Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. He is Linux Kernel Developer & SAN Architect and is passionate about competency developments in these areas. He lives in Bangalore and delivers focused training sessions to IT professionals in Linux Kernel, Linux Debugging, Linux Device Drivers, Linux Networking, Linux Storage, Advanced C Programming, SAN Storage Technologies, SCSI Internals & Storage Protocols such as iSCSI & Fiber Channel. Stay connected with him @ LinkedIn |

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