

SQL DBA Troubleshooting Tips

66	What are dirty pages ?		The pages that are sent by transaction manager after writing the transactional log , to the buffer pool are called dirty pages.
67	What is lazy writer		Lazy writer is a process in the buffer pool , that writes all the dirty pages from buffer pool to the data files on the disk at certain times like at checkpoint.
			Log architecture useful video
68	Does logfile record select statements ?		No. Only modifications are logged in logfile. https://www.youtube.com/watch?v=iuuIOVhrVBo
69	What are the different states of VF's in a log file ?		Active- Currently running or waiting to be run Recoverable - Those VFs that have completed but data not cleared. Reusable - Those VLF's that have data cleared and space is ready to used. UnUsed - Those VLF's that have not been used.
70	What are minLSNs ?		The log sequence numbers that are internally created by SQL server for nested queries generally , like in modular processing in side a VLF. Each sub transaction is given a number called minLSN.

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	Performance Tuning		https://www.youtube.com/watch?v=M0kQzhp_xli8 https://www.youtube.com/watch?v=AaPaIVI-yyI https://www.youtube.com/watch?v=AaPaIVI-yyI
71	What does the query optimizer use to create a query plan.		It relies on the 'statistics' and estimates the cost.
72	Can there be a non-clustered index without a clustered index ?		Yes . Technically there's no restriction to create one.
73	Do the DML statements necessarily become faster after index creation ?		No. Regular DMLs on huge tables with indexes can become slow if the updates , deletes are done on the index key itself. The index has to rearrange too many leaf nodes and non-leaf nodes to be inline with the index definition which can hinder performance.
74	What is the DBCC command to get the info process running on SQL Server		DBCC INPUTBUFFER(@PROCESSID) ProcessID is obtained from SP_Who2 (sp_who has been upgrade to new version sp_who2 with addition of Blocked-By column)

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75	Stored procedure to get currently active processes.		Sp_whoisactive
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