



SQL Server 2012

Periodic Table of Dynamic Management Objects

WORKLOAD	C	S	R																			xP
	exec_connections	exec_sessions	exec_requests																			db_index_physical_stats
CURSORS	ST	CR	xIH	oLS	M	BD	PM	mO	mN	N	D	DP	xD	xC	xG	xGS	xU	xO				
	exec_sql_text	exec_cursors	exec_xml_handles	os_latch_stats	os_sys_memory	os_buffer_descriptors	os_process_memory	os_memory_objects	os_memory_nodes	os_nodes	os_dispatchers	os_dispatcher_pools	db_missing_index_details	db_missing_index_columns	db_missing_index_groups	db_missing_index_group_stats	db_index_usage_stats	db_index_operational_stats				
QUERY STATS	qP	qS	TL	oSL	mCE	mCH	mNS	mB	mCC	SCH	W	WLS	ioP	ioF	PC	RB	WT	WS				
	exec_query_plan	exec_query_stats	exec_tran_locks	os_sublatches	os_memory_cache_entries	os_memory_cache_clock_handlers	os_memory_node_access_stats	os_memory_brokers	os_memory_cache_counters	os_schedulers	os_workers	os_worker_local_storage	io_pending_io_requests	io_virtual_file_stats	os_performance_counters	os_ring_buffers	os_waiting_tasks	os_wait_stats				
PROGRAMMATIC	qTP	PS	TGS	oSS	mHT	VAD	mA	mBC	mP	T	TH	dPS	suF	suL	suS	suT	SP					
	exec_text_query_plan	exec_procedure_stats	exec_trigger_stats	os_spinlock_stats	os_memory_cache_hash_tables	os_virtual_address_dump	os_memory_allocations	os_memory_broker_clerks	os_memory_pools	os_tasks	os_threads	db_partition_stats	db_file_space_usage	db_log_space_usage	db_session_space_usage	db_task_space_usage	db_stats_properties					
PLAN STATS	CP	CPO	PA	qOI	qTS	qRS	qMG	mC	aA	aM	aS	SL	SKU	CC	UE	dPA	EK					
	exec_cached_plans	plan_dependent_objects	exec_plan_attributes	exec_query_optimizer_info	exec_query_transformation_stats	exec_query_resource_semaphores	exec_query_memory_grants	os_memory_clerks	audit_actions	audit_class_type_map	server_audit_status	db_script_level	db_persisted_sku_features	db_objects_disabled_on_compatibility_level_change	db_uncontained_entities	db_database_page_allocations	database_encryption_keys					
TRANSACTIONS	tS	tC	tD	xeP	xeO	xeS	xeE	xeM	bC	bT	bM	bQ	QNS	FR	FRO	rDe	rGe					
	tran_session_transactions	tran_current_transaction	tran_database_transactions	xe_packages	xe_objects	xe_sessions	xe_session_events	xe_map_values	broker_connections	broker_activated_tasks	_forwarded_messages	broker_queue_monitors	qn_subscriptions	exec_describe_first_result_set	exec_describe_first_result_set_for_object	sql_referenced_entities	sql_referencing_entities					
SNAPSHOT	ssC	ssD	tA	xeSC	xeC	xeT	xeEA	GC	GA	GP	GW	cS	cT	cE	rTI	rS	rA	rTH				
	tran_current_snapshot	tran_active_snapshot_database_transactions	tran_active_transactions	xe_session_object_columns	xe_object_columns	xe_session_targets	xe_session_event_actions	resource_governor_configuration	resource_governor_resource_pool_affinity	resource_governor_resource_pools	resource_governor_workload_groups	cdc_log_scan_sessions	tran_commit_table	cdc_errors	repl_traninfo	repl_schemas	repl_articles	repl_tranhist				
LOG POOL	ssT	ssS	ssG	LS	LC	LH	LSB	LBR	LPB	LMS	LRS	LF	cD	cN	cP	cLC						
	tran_transactions_snapshot	tran_version_store	tran_top_version_generators	logpool_stats	logpool_consumers	logpool_hashentries	logpool_sharedcachebuffers	logconsumer_cachebufferrefs	logconsumer_privatcachebuffers	logpoolmgr_stats	logpoolmgr_responsize	logpoolmgr_freepools	io_cluster_shared_drives	os_cluster_nodes	os_cluster_properties	os_server_diagnostic_log_configurations						
AVAILABILITY GROUPS	bQ	bS	hN	hI	hC	hM	hT	hGS	hrN	hrS	hrR	hdC	hdR	hPR	mC	mR	mA					
	exec_background_job_queue	exec_background_job_queue_stats	hadr_instance_node_map	hadr_name_id_map	hadr_cluster	hadr_cluster_members	hadr_cluster_networks	hadr_availability_group_states	hadr_availability_replica_cluster_nodes	hadr_availability_replica_cluster_states	hadr_availability_replica_states	hadr_availability_replica_cluster_states	hadr_database_replica_states	hadr_database_replica_states	hadr_auto_page_repair	db_mirroring_connections	db_mirroring_auto_page_repair	db_mirroring_past_actions				
SERVER METADATA	SI	WI	VS	SR	SS	BT	MD	SK	TLS	CI	H	LM	cyA	cyK	cyP	cyS	clrD	clrA				
	os_sys_info	os_windows_info	os_volume_stats	server_registry	server_services	io_backup_tapes	server_memory_dumps	os_stacks	tcp_listener_states	os_child_instances	os_hosts	os_loaded_modules	cryptographic_provider_algorithms	cryptographic_provider_keys	cryptographic_provider_properties	cryptographic_provider_sessions	clr_appdomains	clr_loaded_assemblies				
FULL TEXT SEARCH	fPS	fAC	fH	FK	FKD	FKP	fIP	fMB	fMP	FOB	FP	fPR	fSP	fsNH	fsIR	fsIH	clrP	clrT				
	db_fts_index_physical_stats	fts_active_catalogs	fts_fdhosts	fts_index_keywords	fts_index_keywords_by_document	fts_index_keywords_by_property	fts_index_population	fts_memory_buffers	fts_memory_pools	fts_outstanding_batches	fts_parser	fts_population_ranges	fts_semantic_similarity_population	filestream_non_transacted_handles	filestream_file_io_requests	filestream_file_io_handles	clr_properties	clr_tasks				

Dynamic Management Object Classification Key

ACT (blue)

Activity DMOs

The user and internal activity that has or is occurring on the instance and the associated query engine and procedure cache information that results from the activity.

SOS (red)

SQLOS DMOs

SQLOS; the operating system internal to SQL Server. The DMOs here are divided into Locking/Blocking, Memory, and CPU-centric sub-classes.

IX (yellow)

Index DMOs

Broken down into three sub-classes (Physical, Usage, and Missing Indexes) these DMOs provide insight into how indexes are structured, used, or recommended for creation.

PRF (dark green)

Performance DMOs

While many DMOs address performance, unlike INFORMATION_SCHEMA views, these six are vital for providing metrics for IO, performance counters, and Wait Stats metadata.

MN (light green)

Monitoring DMOs

Tied closely to performance, hence the same shade of colors, Monitoring DMOs encompass CDC, Extended Events, Auditing, Service Broker, and Resource Governor

OBJ (purple)

Object Metadata DMOs

All things object-related (as far as the DMOs are related). Encryption, statistics, referential integrity, usage, object metadata and partitioning all fall into this class.

FRG (salmon)

Fringe DMOs

These involve SQL constructs that are on the fringe of SQL: Full-Text Search, CLR, Filestream, and File Table are all covered here.

SVR (orange)

Server Metadata DMOs

All things server-related (as far as the DMOs are related). Server metadata, install information, registry metrics, and encryption are in this class.

HA (grey)

High Availability DMOs

High Availability architectures get a lot of attention in SQL Server 2012. Most of the new DMOs are related to Availability Groups. Mirroring, Log Shipping, and replication all get attention.

Thick line = division between classes.

Narrow solid line = division between sub-classes.

Narrow dashed line = division within a sub-class.

Dynamic Management Function

(fx)

+2012

+2012

Symbol

Dynamic Management Object Name

+2008 = Appears 1st in 2008

+R2 = Appears 1st in 2008R2

+2012 = Appears 1st in 2012

+2008 = Removed in 2008

+R2 = Removed in 2008R2

+2012 = Removed in 2012