

Managing and Monitoring SQL Server 2005

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Microsoft

Visual Studio 2005

Microsoft

SQL Server 2005

Microsoft

BizTalk Server 2006

Managing and Administering

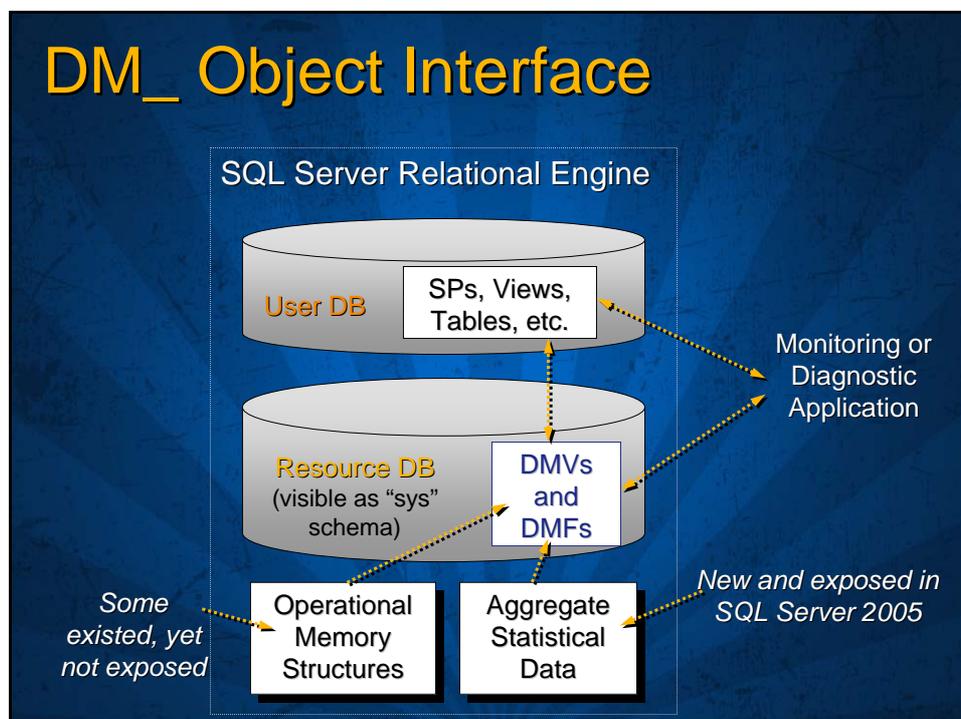
- ★ *SQL Server Management Studio*
- ★ *Dynamic Management Views*

Dynamic Management Views

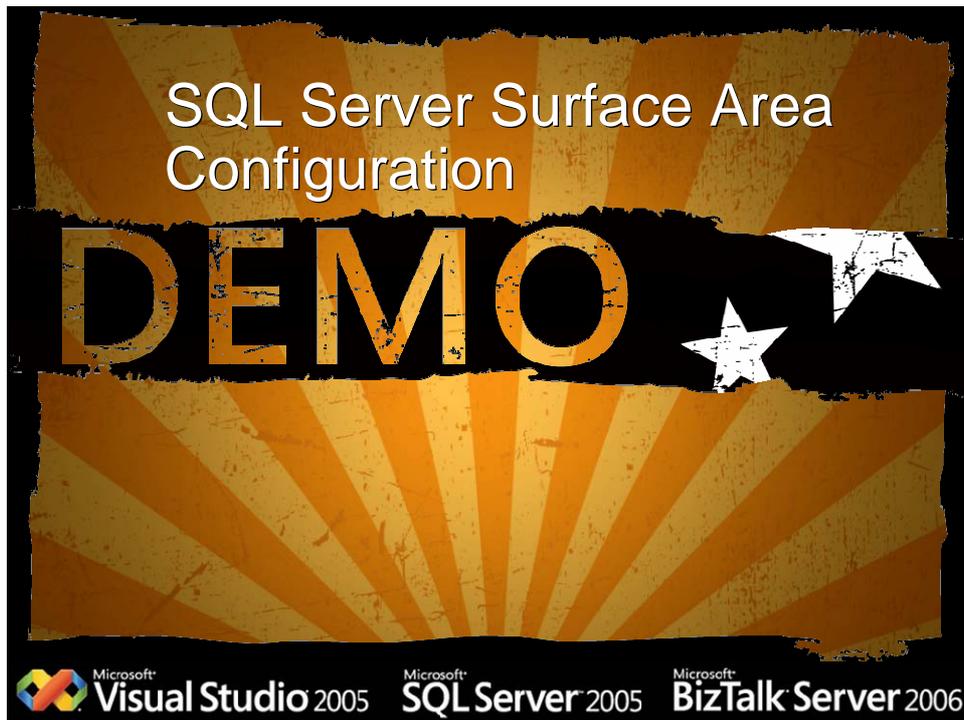
- ★ Views built on top of internal structures
- ★ Ideal for monitoring server

Server Level	Component Level
dm_exec_* Execution of user code and associated connections	dm_repl_* Replication
dm_os_* Memory, locking & scheduling	dm_broker_* SQL Service Broker
dm_tran_* Transactions & isolation	dm_fts_* Full Text Search
dm_io_* I/O on network and disks	dm_qn_* Query Notifications
dm_db_* Databases and database objects	dm_clr_* Common Language Runtime

DM_ Object Interface







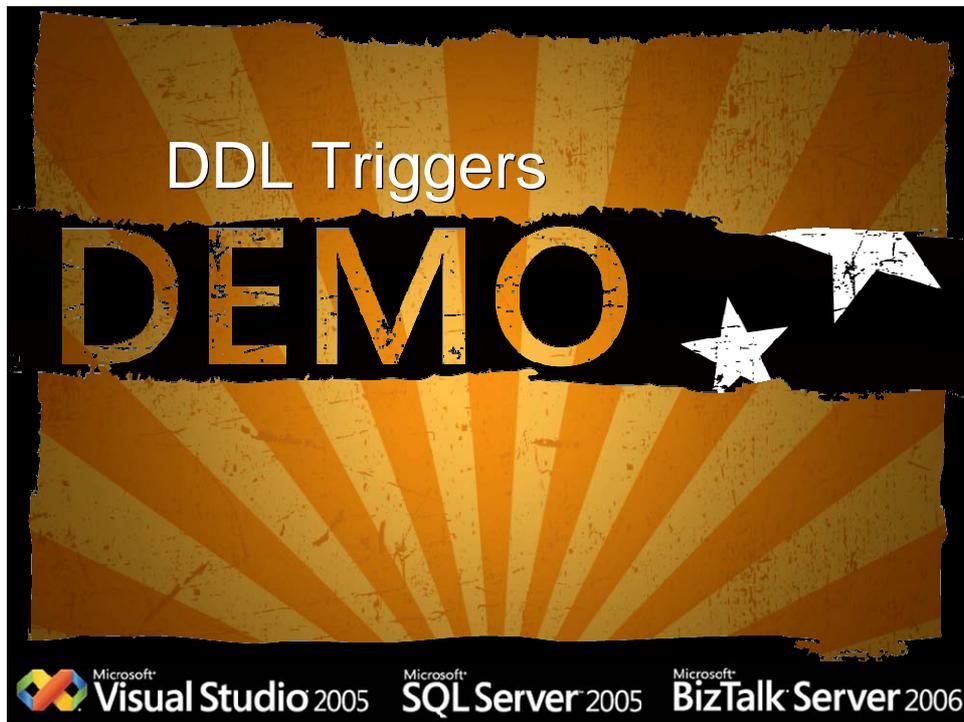
Auditing and Change Control

Controlling and Monitoring Change

Minimal work
★ to leverage

Design and
★ Architect

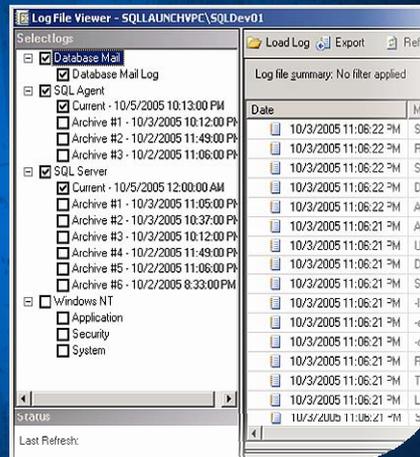
- ★ DDL Triggers – targeting
 - ★ Specific Commands: DROP_TABLE
 - ★ Groups: DDL_PROCEDURE_EVENTS
 - ★ CREATE PROCEDURE ★ ALTER PROCEDURE
 - ★ DROP PROCEDURE
- ★ Event Notifications and WMI Events – target all of the above, plus:
 - ★ Specific Trace Events: DATA_FILE_AUTO_GROW
 - ★ Trace Groups: TRC_STORED_PROCEDURES
 - ★ SP_RECOMPILE ★ SP_CACHEMISS
 - ★ SP_CACHEREMOVE ★ SP_CACHEINSERT



Monitoring A Unified Approach



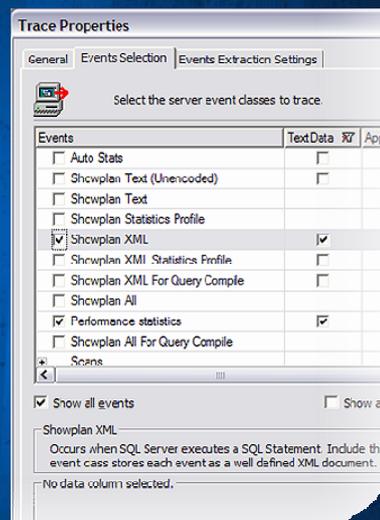
- ★ Supports multiple logs
 - ★ SQL Server Database Engine Information
 - ★ SQL Server Agent Information
 - ★ Windows Event Viewer Application Log
 - ★ Database Mail Logs
- ★ Across all logs, allows:
 - ★ Searching
 - ★ Filtering
 - ★ Exporting

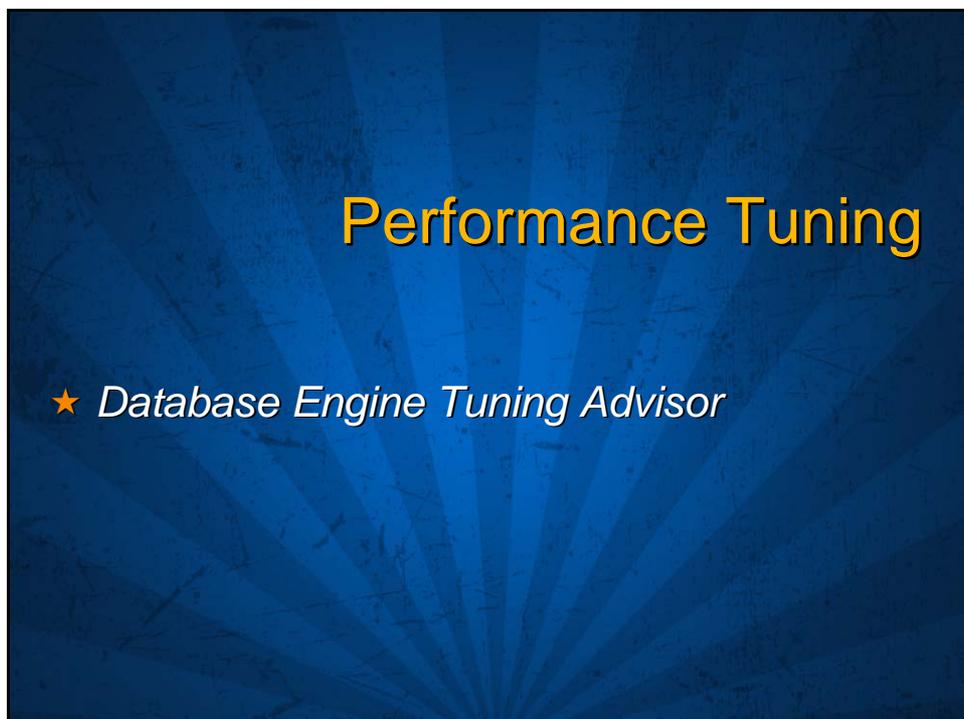
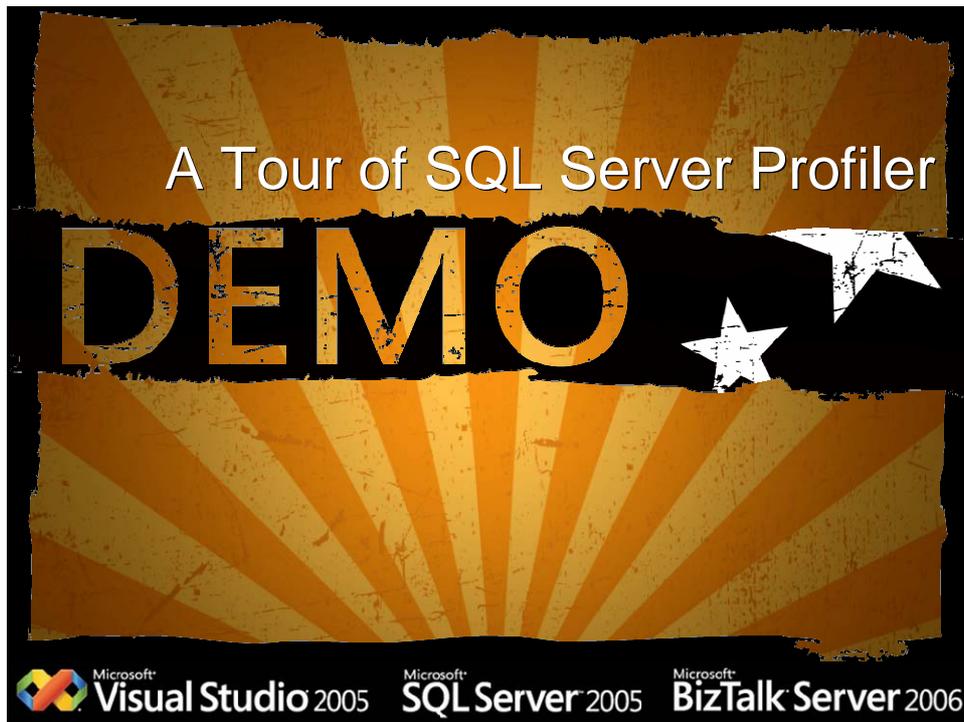


SQL Server Profiler



- ★ Analyze the SQL Server Database Engine and Analysis Services
- ★ Significantly easier to setup (Events, Data Columns and Filter dialogs combined)
- ★ Special Events: Service Broker, Notification Services, etc...
- ★ Special Event types: Showplan XML and Deadlock Graph – can be saved to files
- ★ Supports pause and modify
- ★ Profiles SQL Server 2000 & 2005
- ★ Permissions to profile grantable

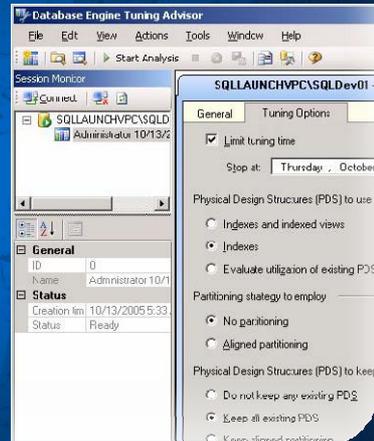




Database Tuning Advisor (DTA)

Minimal work
to leverage

- ★ Partitioning recommendations
- ★ Time-bound tuning
- ★ Indexes with Included columns
- ★ XML Input/Output
- ★ Drop ONLY mode
- ★ Parameterized command line execution
- ★ Import previously saved Session Definition (XML format)
- ★ Workload options
 - ★ Can be a *.trc, *.sql or *.xml format
 - ★ Can be a SQL Server Table



Database Tuning Advisor

DEMO



Visual Studio 2005



SQL Server 2005



BizTalk Server 2006

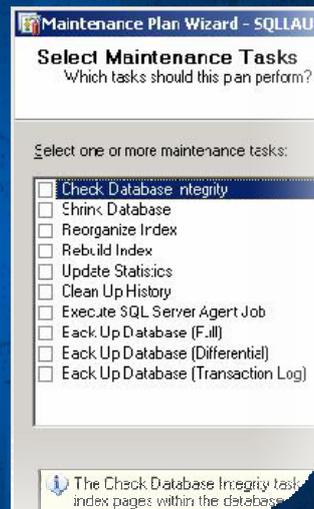
Automation and Upgrade

- ★ *Database Maintenance Plans*
- ★ *Database Mail*
- ★ *SQLCMD*

Database Maintenance Plans

Minimal work
to leverage

- ★ Based on SQL Server Integration Services
- ★ Flexible Wizard based Interface
- ★ Options to create cross database plans
- ★ Backup all users databases will pick up newly added databases – even after the plan is created



Database Mail

- ★ Uses SMTP – No Microsoft Outlook dependency!
- ★ No SQLCLR dependency
- ★ Asynchronous and queued architecture
- ★ Leverages SQL Server Service Broker for queuing
- ★ Multiple SMTP accounts
- ★ SMTP account failover
- ★ Mail calls made outside SQL Server process
- ★ Cluster support
- ★ 64-bit support
- ★ Logging

Upgrade
Immediate

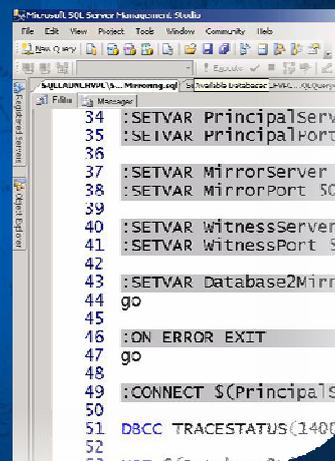


SQLCMD

Command-line automation and scripting

- ★ Replaces OSQL
- ★ Supports Connections to multiple servers (master scripts)
- ★ Allows Parameter substitution
 - ★ Variables defined in script
 - ★ Variables passed in
 - ★ Environment variables
- ★ Better Control on Error
- ★ Initialization Scripts
- ★ Dedicated Admin Connection

Upgrade
Immediate



For More Information

- ★ <http://www.microsoft.com>
- ★ Books Online
- ★ <http://msdn.microsoft.com>
 - ★ Whitepapers
 - ★ Books Online
 - ★ Webcasts
- ★ Blogs at <http://blogs.msdn.com>
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