Tim's Notes SBS GOOEY LAB

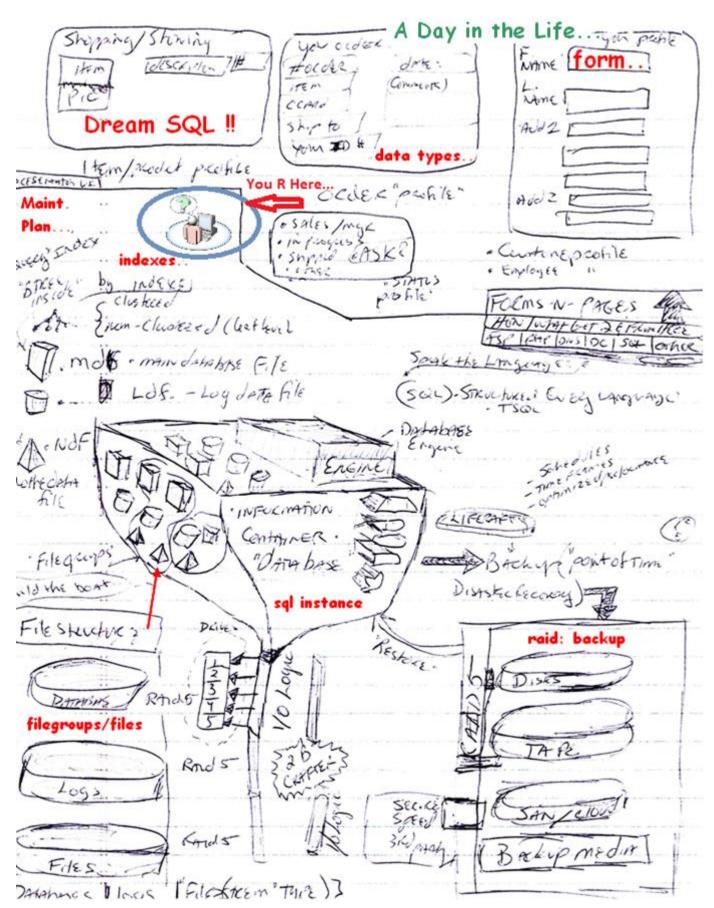


What "Connects" Users to SharePoint/Office 365/Azure



- * Maintenance Plans
- * Disaster Recovery
- *Automating jobs
- *Monitoring Performance
- *Notification/Alerts
- *Error Trapping





565 G	-OOEY LABS INSTRUCTION &1	
	AINT PLAN LAB : AFTER GEN DISCUSSION SEATE NEW USER AND - MAKE SOL LOGM FOR NEW USER-MAKE AS ASM	لذر
3	· Poles Compare to Adventuce works Admin Group in Achie diescholy?	
3 283 2) (LEATE Maint Plan . P 286, INtegrity, Indexes, BUP	
	offlee / Extended Events / TRACE (Ing) EVENTS 294 OPERFORMANCE TUNING Connection + DEAdlocks STACT/END TIMES	
3 0	· Auditring · Application · DETECT Blocking · Host INFORMATION ** ** T/SQL TEXT	
3	L SAVE AS TEMPLATE	
303 4) E) *	HENDED EVENTS SETUP ** MONITOR ACTIVITY (P.308) - RUN SELECT & OTHER STATEMENTS * VIEW ACTIVITY	
5)6	DEYLABS Notify & Jobs (345)	
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9		SEHTING UP Some Automatini & General Events & & Jobs
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7	<i>\$</i> 1 ²	o Peofile/TRACE & extended Events-mailton Overes / Eleons. 188
9		OT. logs BUP: RESTOCE (264) 730 20
9		O INDEXES (STATISTICS 671) - DE KRIMINE FRAGMENTA MON RE DVITO!
9	1	· Avonatic on Index Rebuild, Dbase . TABLE. Column
3		· MANUAL ON INDEX CEOGRAPSE PK FK NAME) (NOTIFY TO PERFORM Upon REOTONIE)
9		· UIEW STATT STICS (-279) · WHEN UP dated LEQUICE QUECY
9		GENERATED BY OPERITEE INDEX OCHER BY
9	B	All CAChed plans ACE Emptred - Column Separate
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SBS DAY MAINTENANCE TAKKASTRUCTURE" &
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30 PROFILER / TRACE / CASE VS EXERNOED EVENTS 299)
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264 -T-logs BUP -Paint in time LAB (GUI LAB)
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5 36 MADE SOCCESSI HANDLE
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Tim's Notes SBS GOOEY LAB



SBS GOOEY LAB'S Instructions....

Instructions....

Using the Step by Step book by the page number to review the variety of day to day or otherwise "routine" jobs with SQL server...

- Parameterizing User Defined Functions 204
- Parameterizing Stored Procedure 220

Maintenance Plans: Performance Tune, Detecting Deadlocks, Auditing, Detecting Blocking

- 1. Create Maintenance Plan: p283 Backups, Retention, Indexes, Statistics
 - a. DBCC check databases Validate consistency of databases
 - b. Maintenance Plan Wizard 284
- 2. Set up "Monitoring"
 - a. SQL Profiler 293 (Depreciated in 2012)
 - i. Create Trace 294
 - ii. Running Trace 301
 - iii. Filter Trace
 - b. Extended Events 303
 - c. Create Sessions 304
 - d. Monitor Performance 308
- 3. Manage Logins, Users, Groups SQL Login vs. Active Directory
 - a. Contained Databases 322/327 see AlwaysOn note 331
- 4. Resource Governor 333 (RECONFIGURE)
 - a. Pools
 - b. Workload/Resource consumption
 - i. Max Degree Parallelism: The Microsoft SQL Server max degree of parallelism (MAXDOP) configuration option controls the number of processors that are used for the execution of a query in a parallel plan. http://support2.microsoft.com/kb/2806535
 - c. Classifier Functions 340
 - i. Testing functions 341
 - ii. Modifying 343
- 5. SQL Agent: *Is my friend!!* 345 Regularly scheduled tasks must be performed to ensure that disaster recovery, retention policies, index performance, and monitoring goals are maintained.
 - a. Operators 346/352



- i. Notifications by email 352
- b. Alerts & Jobs 354 A job may use a schedule to run automatically, an operator may be notified if a job succeeds or fails, or an operator may be notified if an alert is fired.
 - i. Events that trigger alerts 354
 - ii. Jobs 357
- c. Proxies -
- d. SSIS Integrations Services packages (ETL) Extract, Transform, and Load.
- e. Agent Configuration
 - i. Security account
 - ii. Error log location
 - iii. Start settings (Auto, Manual, etc.) 346
 - 1. Control properties 349
 - 2. Include Execution Trace Properties 350
- 6. Database Mail 365 Mail log 376
- 7. Triggers 379
 - a. Data Definition For auditing the creation of databases on a server or objects within a database and fire based on events that occur at the server and database level.
 - b. Data Manipulation 225 triggers are executed only when a user or application attempts to modify data using Data Manipulation Language (DML).
 DML includes INSERTs, UPDATEs, and DELETEs against views and tables.
 - c. Create triggers 380
 - d. ALL SERVER option 383
 - e. Disable vs. Delete 384
 - f. Drop 358
- 8. Dynamic Management Objects (DMO's, DMV's & DMF's)
 - a. Wait statistics most common 388
 - b. Query server 390
 - c. Execution Plans 392 finding "expensive" queries/code.
 - d. Indexing statistics 393
 - e. 4 Key Columns 395 weigh non clustered index performance.
 - i. Low numbers of seeks, scans, and lookups versus a high number of user updates means this index s being maintained but rarely used.
 - f. Fragmentation 396