TIMOTHY JAMES RYF

SQL Server DBA

PROFESSIONAL SUMMARY

* SQL Server DBA with 14+ years of experience in Database Administration, Design, Development, Installing, and Support of MS SQL Server 2000 – 2017 versions in Production, Test, and Development Environments.
* Experience shipping highly available and scalable applications using Microsoft technologies.
* Expert-level experience with database maintenance and administration.
* Experience includes System analysis and design, development, and support on systems built on MS SQL Servers from 2000 thru 2017.
* Extensive experience using tools like SQL Profiler, Index Tuning Wizard, Windows Performance Monitor, Query Execution Plans, Dynamic Management Views, Visual Studio, Ignite, and Conduit.
* Excellent skills in database Backup, Recovery, Replication, Mirroring, Linked Servers, Log Shipping, and Database Maintenance Planning.
* Excellent SQL Server administration skills including user authorizations, Database creation, Tables, and index creation.
* Strong T-SQL Developer skills including stored procedures, Indexed views, User Defined Functions (UDL), Triggers, and Distributed Queries and Common Table Expressions.
* Experience migrating data from one server to another server by In-place upgrade process as well as side-by-side upgrade process.
* Experience with Transactional Replication and Log Shipping for SQL Server High Availability
* Experience in Responding to outages during on-call support. Troubleshoot and identify causes of databases not available or not online.
* Experienced in Performance Tuning, Query Optimization, Client/Server Connectivity, and Database Consistency Checks using DBCC Utilities DMVs and DMFs.
* Consult and advise for the usage of Policy Based Management, Data Compression, Resource Governor, Performance Data Collector, and Transparent Data Encryption (TDE).
* Participated in disaster recovery exercises. After a server build, I installed and configured SQL Server, restored databases, re-created logins with permissions, and re-created jobs, and alerts.
* Proficient in the high-level design of ETL, DTS, and SSIS Packages for integrating data using OLE DB connection from heterogeneous sources (Excel, CSV, Oracle, flat file, etc.)
* Experience creating Links Servers between SQL Server & Oracle.
* Expert in Creating DTS packages for data transfer between environments.
* Proficient in Consulting with the development teams to troubleshoot Web-based applications.
* Exposure to Consulting with Windows Administrators to troubleshoot poor performance.
* Proven ability to work in teams as well as independently.

CERTIFICATIONS

* CompTia Security +, October 2015
* Microsoft Certified Database Administrator, November 2008

EDUCATION

* Associate Degree, Microcomputer Applications Analyst

TECHNICAL SKILLS

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| MS SQL Server versions | 2000/2005/2008R2/2012/2016/2017 |
| Database tools | Management Studio, Enterprise Manager, Query Analyzer, SQL Profiler, Data Transformation Services, Upgrade Wizard |
| Programming languages | T-SQL, Powershell |
| Tools | Windows Performance Monitor, Backup Utility, Visual Studio, Windows .Net Frame Work, ADO.Net, VB.Net, SSIS, Crystal Enterprise, IIS, SQL Diagnostic Manager, Quest SQL Spotlight EE |
| Operating Systems | Windows OS |

PROFESSIONAL EXPERIENCE

Union Pacific Railroad, Omaha, NE May 2022 – May 2023

SQL Server DBA

Responsibilities:

* Performed Microsoft SQL Server 2012 & 2017 database administration.
* Monitored thousands of databases on 80 SQL servers.
* Performed maintenance in databases sized from hundreds of gigabytes to over 1 terabyte.
* Monitored and resolved blocking processes.
* Submitted proposals to create extra data files for large tables and to create these files on multiple disks.
* I recommended changing start times for jobs that were executing simultaneously to speed up execution time.
* Shrink thousands of data files to increase the amount of disk space available. File growth is controlled by assigning smaller growth increments which reduces the alerts for low disk space.
* Created spreadsheets to track file sizes, amount of disk space available, index sizes, and index fragmentation.
* Executed the Index Usage Statistics report to identify indexes with large numbers of insert, update, and delete transactions.
* Rebuilt Indexes. Disabled Unused indexes.
* Created alerts for long-running processes. If disk io count does not increase over time, the process is considered not operating and is terminated.
* After identifying a blocking process, I copied the user’s code and informed them their query was blocking other processes.
* Blocking processes are terminated if the user grants approval or if the SQL DBA team determines the user’s code is inadequately written.
* Assigned permissions to logins.
* My supervisor assigned a project to me to improve Performance tuning. My proposals included following Microsoft’s Best Practices for these features: Cost Threshold for Parallelism, Query Store, Optimization for Ad Hoc Workloads, Index Maintenance, Memory Usage by object, and Re-scheduling jobs to avoid execution overlap.

Environment: SQL server 2012, 2017 with clustering, Replication, Mirroring, Log Shipping, Always on Availability Groups

Defense Health Agency, Aurora, CO Feb 2017 - Nov 2021

SQL Server DBA

Responsibilities:

* Performed Microsoft SQL Server 2008 R2, 2012, & 2016 database administration.
* Upgraded SQL 2008 R2 instances to SQL 2012. Upgrade SQL 2012 instances to SQL 2016.
* Installed 5 SQL Server named instances. Apply service packs, updates, and hotfixes.
* Backup, Restore, and Migrate databases between Development, QA, and Production instances.
* Created additional data files and filegroups for a 200-gig database. Allocate new data files among multiple disks to improve query response times.
* Submitted requests to the SAN team to expand disk space.
* Submitted Firewall requests to open ports to access SQL instances using VPN.
* Uploaded client data into databases using SSIS packages and Import Wizard.
* Modified data control tasks within SSIS packages.
* Executed scripts supplied by programmers to create and modify database objects.
* Documented the Query Store feature to compare multiple query execution plans and select the most optimal plan.
* Troubleshoot client complaints regarding slow query response. Collaborate with Windows Administrators to resolve.
* The QA virtual server houses Team Foundation Server databases. TFS was causing slow query response during application testing. I consulted with the Windows Admins and they added CPU / Core to each socket for resolution.
* Used SQL Configuration Manager to assign Server Certificates. Certificates enable application connections to be encrypted when connecting to SQL. SQL service accounts require read permission on the certificate. I supplied the instructions from the Internet to the Windows Admins to assign the read permission.
* DHA security requires that C2 auditing be enabled on all SQL instances.
* Query audit files for insert, update, and delete statements.
* Evaluate STIG reports to identify findings and reconfigure the SQL instances and databases to remediate STIG violations.
* Catalog changes to database activity. Catalog login failures.
* Configured maximum memory and maximum user connections per instance.
* Created Logins, Roles, and assigned permissions.
* Shrink data and transaction log files. Re-configure file growth increments and maximum file sizes.
* Reduced the number of virtual logs within transaction logs.
* Created additional Tempdb files on each QA instance.
* Copied table partition best practices documents from internet sites and presented them to programmers for their education. Query record counts for date ranges in tables for partition samples.

Environment: SQL Server 2008R2/2012/2016 with SSIS and Visual Studio

Fort Sam Houston, San Antonio, TX Feb 2016 - Jan 2017

SQL Server DBA

Responsibilities:

* Created STIG security auditing jobs to collect SQL configurations.
* Encrypt Databases. Create Encryption keys and certificates.
* Migrated encrypted databases, certificates, and keys.
* Rebuild indexes.
* Assigned permissions to logins.
* Configure file growth increments for data and transaction log files.
* HIPPA, PII, & Cyber Awareness training

Environment: SQL Server 2008R2

Dept. of Defense, Indianapolis, IN Apr 2015 - Jan 2016

SQL Server DBA

Responsibilities:

* Managed and Administered SQL Server 2005/2008R2 production and non-production servers.
* Prepared maintained and modified SQL server installation and configuration documents.
* Troubleshoot and resolve failed jobs and error messages in log reports.
* Responsible for monitoring and making recommendations for performance improvement in hosted databases.
* Obtained the CompTia Security + certification.

Environment:  SQL Server 2005/2008R2

St Anthony's Medical Center, St Louis, MO May 2014 - Mar 2015

SQL Server DBA

Responsibilities:

* Perform Microsoft SQL Server 2000, 2005, 2008 R2, & 2012 database administration.
* Backup, Restore, and Migrate databases.
* Create SQL Logins and assign permissions.
* Provided administration tasks such as resizing data, transaction logs, and tempdb files.
* Responsible for fine-tuning the database, troubleshooting, and memory management.
* Maintained databases with DBCC Checkdb Integrity Checks.
* Created reports based on database usage and performed capacity planning.
* To improve database and query performance, I disabled Unused Indexes and created jobs to rebuild indexes.
* Created alerts. Configured operators and Database Mail profiles for email notifications and alerts.
* Provided Backup and Recovery Strategy for SQL Servers.
* Assigned a maximum memory of 20 gigs on 2 SQL instances to prevent slowness upon a 2-node cluster.
* I submitted Always On Availability Group information to my supervisor to assist with design and failover testing.

Environment: SQL Server 2000/2005/2008R2/2012

Maritz, Fenton, MO Jul 2013 - Apr 2014

SQL Server DBA

Responsibilities:

* Performed Microsoft SQL Server 2000, 2005, 2008 R2, & 2012 database administration.
* Create SQL Logins and assign permissions.
* Execute scripts supplied by programmers to create schemas and assign group permissions to schemas.
* Migrate databases and tables.
* Used stored procedures, BCP, and DTS Packages for migrating data across different servers.
* Involved in the automation of jobs and was involved in daily monitoring of the tables and indexes for performance.
* Monitored Log shipping and Transactional Replication and troubleshooting of any errors.
* Identify blocking processes and report to the DBA team to determine follow-up action.
* Designed Database Maintenance Plans to update statistics.
* Create Profiler traces to identify Sort and Hash Warnings and submit recommendations to optimize performance.
* Used Ignite monitoring software to identify query activity during specific time frames. Supplied query information to programmers to evaluate queries that caused slowness.
* Used Conduit monitoring software to identify CPU and memory spikes. Advise business units to add more processors and memory.
* Analyze problems in the production environment and propose methods for optimizing performance.
* Involved in Backup and Restoration of data/database.

Environment: SQL Server 2000, Windows .Net Frame Work, SSIS, IIS, SQL Diagnostic Manager, Quest SQL Spotlight EE

Brownells, Montezuma IA Oct 2012 - Jun 2013

SQL Server DBA

Responsibilities:

* Performed Microsoft SQL Server 2008 R2 database administration.
* The SQL development team asked me to optimize a busy Production server. I was informed that overnight maintenance jobs were to be finished by 6 am. Two jobs were overlapping causing slow execution. After changing the start times for all jobs to avoid overlapping job execution, I asked the Windows Administrators to add more memory to the server. RAM was increased from 64 gigs to 128 gigs.
* Created Profiler traces to capture queries and execution plans for programmers to review.
* Viewed Profiler trace files to identify Sort and Hash Warnings and provide them to programmers.
* Sorted Warnings indicate excessive Tempdb usage.
* Hash Warnings indicate not enough memory.
* Created and Updated Statistics.
* Executed Unused Indexes and Missing indexes scripts to identify non-clustered indexes to disable and create.
* Created checkdb, backup, and rebuild index jobs.
* Configured operators and Database Mail profiles for email notifications and alerts.
* Shrink data and transaction log files.
* Re-configured file growth increments and maximum file sizes.
* Resized Tempdb files to equal size.
* Identified memory pressure and I/O messages in the SQL log and notified Windows administrators to evaluate.
* Used Performance Monitor to capture page faults, page splits, Index searches, and SQL compilation data to evaluate performance.
* Viewed SQL Standard Reports - Queries by I/O, Queries by CPU Time, and Batch Execution to evaluate query activity.

Environment: SQL Server 2008R2, Windows.Net Frame Work, SSIS, Crystal Enterprise, IIS, SQL Diagnostic Manager, Quest SQL Spotlight EE

IBM, Dubuque IA Jun 2009 – Oct 2012

SQL Server DBA

Responsibilities:

* Performed Microsoft SQL Server 2000, 2005, and 2008 R2 database administration.
* Used Remote Desktop, Citrix, and VPNs to connect to client servers over the Internet.
* Installed and Upgraded SQL Server. Apply Service Packs, patches, and hotfixes.
* Created, modified, and migrated databases. Backup and restore databases.
* Executed scripts from programmers to modify database objects during change windows.
* Used Visual Studio to modify SSIS packages per programmer instructions during change windows.
* Modified data flow tasks were made and verified by the programmers. Packages were scheduled to be executed using the SQL Agent.
* Created user logins and assigned permissions.
* Created and modified maintenance plans and jobs.
* Shrink data and transaction log files. Re-configure file growth increments and maximum file sizes.
* Resized Tempdb files to equal size.
* Used Current Activity window and sp\_who2 command to identify blocking processes and kill processes to allow users to execute jobs.
* Created and executed Profiler traces. Filter Profiler trace files to identify processes with the highest read and write counts and provide results to requestors.
* Used Import/Export Wizard to export tables between instances and servers.
* Created Transactional Replication to Oracle databases. Re-create Replication using scripts and synchronize Subscribers that were stopped due to server outages. Use Replication Monitor to restart Log Reader agents.
* Created Log Shipping.
* Created Linked Servers to allow query executions from remote instances.
* Responded to emergency outages and dialed into conference calls with Windows Administrators to troubleshoot and correct SQL Server problems.
* Respond to a client who was unable to connect to an instance. In the control panel, data sources option, I discovered the DLL files were moved to another drive without permission. After moving the files back to the proper location, the client was able to connect.
* During on-call support, I responded to a primary node failure. Using Cluster Administrator, I moved the SQL Resource group to the secondary node to bring the SQL databases online.
* Participated in Disaster Recovery exercises. After installing SQL Server software, I provided the database file locations from production and instructed the backup team to copy the files to the corresponding disk locations on the DR servers. Then I restored the databases.
* Used ticket management software such as ServiceNow, Remedy, Manage Now, and Peregrine to record tasks and track time worked for each job. Adhere to Service Level Agreement time frames and definitions for Incident and Change requests.
* Attended a 3-day training course provided by Learning Tree for SQL Server 2008 R2 High Availability. Instruction covered Log Shipping, Peer to Peer Replication, and Failover Clustering.

Environment: SQL Server 2000/2005/2008R2, .Net Frame Work, SSIS, Crystal Enterprise, IIS, SQL Diagnostic Manager