



Surbhi Agrawal

Sr. SQL Database Administrator

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Only C2C | | Looking for the positions only in Bay Area CA (Onsite), Rest Remote

Professional Summary:

- 10+ years of experience in Database Administration, Database Design, Modeling, Development &
- Support of Microsoft SQL Servers 2022/2019/2017/2016/2012/2008R2/2008/2005 in Production & Development environments.
- I have specialized in designing, deploying, and managing robust SQL database systems across multiple cloud platforms including AWS, Azure, and GCP. My focus has been on ensuring high availability, disaster recovery, and performance optimization for diverse database environments such as SQL Server, Azure SQL DB, MySQL/MariaDB, and others.
- I have demonstrated expertise in building and maintaining scalable SQL databases and data warehouses, leveraging technologies like vSphere and Nutanix for efficient virtual infrastructure management. My technical acumen extends to implementing CI/CD pipelines using tools like Jenkins, Git, and Ansible to automate database deployments and updates, ensuring seamless DevOps integration.
- My role has also encompassed developing complex SQL queries and stored procedures tailored for transactional processing and analytics. I have extensive experience using PowerShell and Ansible for DBA activity automation, significantly reducing manual efforts and enhancing system reliability. Additionally, I have been instrumental in designing and configuring disaster recovery and backup solutions to safeguard data integrity and ensure continuous data availability.
- As a key architect and developer, I have set up effective ETL processes, integrating multiple data sources into centralized data warehouses to bolster business intelligence efforts. I have also configured VMware environments, optimized for SQL database performance, and managed comprehensive data governance frameworks to ensure data integrity and compliance.
- I have proven leadership abilities, having managed a team of junior DBAs and collaborated closely with IT teams to support application development and infrastructure optimization. My approach has always been hands-on in managing the full lifecycle of database administration from design through maintenance and support, ensuring strategic alignment with business needs.
- My achievements include the development and management of OLAP cubes, implementation of enterprise data management strategies, and configuring high-performance SQL solutions on multiple operating systems. I have ensured robust data security through regular audits and implemented advanced reporting frameworks to support real-time decision-making.
- Overall, my experience as a Senior SQL Server DBA has equipped me with a profound skill set and a deep understanding of database technologies, enabling me to drive significant improvements in data management and operational efficiency within dynamic and challenging environments.
- Lead the migration of Microsoft SQL Server/MySQL/PostgreSQL from on-premises infrastructure to cloud platforms (Azure/GCP/AWS), ensuring a seamless transition and improved scalability.
- Proficient in implementing SQL Server features like Row & Page Compression mechanism, CDC, Data Compression, Backup Compression, Resource Governor, Performance Data Collector & Transparent Data Encryption.
- Expertise in Performance Tuning, Query Optimization, Client/Server Connectivity, Database consistency checks using DBCC Utilities.
- Performed & implemented Log Shipping, Replication, Database Mirroring, failover clustering as High Availability techniques, AlwaysOn Availability as Disaster Recovery Solution, and Backup/Recovery planning.
- Designed Relational Database Model and created Tables, Views, Triggers, Cursors, Dynamic Stored Procedures, User Defined Functions as per business needs.
- Implemented SQL Server 2005 new concepts like Data partitioning, Snapshot Isolation, Online Indexing,

Try-Cache.

- Tracked Server Activity, Query Performance and Disk usage activity statistics via Performance Data Collection.
- Worked with SSIS & SSRS for BI requirements and Transact-SQL (DDL, DML) statements for various applications.

Technical Skills:

DBMS	MSSQL Server, MySQL, PostgreSQL, Azure SQL, AWS SQL, GCP SQL, NoSQL, Redis, Hadoop
Database Administration & Maintenance	SQL Server Installation, Server Migration, Database Mirroring & Replication, Log Shipping, Clustering (AlwaysOn), Space & Performance Tuning, Disaster Recovery Planning, L2 & L3 level Support
BI and Modeling Tools	SSIS, SSRS, SSAS, Power BI, Tableau
Languages	Python, R, T-SQL, PL/SQL, PowerShell, Ansible
Utility Tools	MS Office, MS Excel, Git, Jenkins, Postman, VMware, vSphere, Nutanix, Scorch
Cloud Platforms	AWS, Azure, Google Cloud Platform
Virtual Infrastructure Management	VMware, vSphere, Nutanix
Automation & Scripting	PowerShell, Ansible, Jenkins, Git
ETL Tools	SSIS, custom scripting for large-scale data extraction, transformation, and loading
Security & Compliance	Data Governance, Security Auditing, Compliance Management
Performance Optimization Tools	SQL Server Performance Tuning, Query Optimization, VM Optimization
Disaster Recovery	Backup Solutions, Failover Management, Recovery Strategies
Data Warehousing	Design and maintenance of robust data warehouses, OLAP, Data Integration

Education

- Master Certification in Data Science and Data Analytics, UCSC Silicon Valley Extension, Santa Clara, CA
- Arya Institute of Engineering and Technology, Jaipur, Bachelor of Technology in Information Technology

Certification:

- MCSA (70-764, 70-765) Certified - SQL 2016 Database Administration Charter Member
January 2019
- Star of the Quarter - Consistent Performer Award at TCS for exceptional performance
October 2017
- ITIL® Foundation Certificate in IT Service Management.
January 2017
- MCTS 70-432 Certified - SQL Server 2008, Implementation and Maintenance.
March 2014

Professional Experience:

CloudOpty, Fremont, CA

March 2023 – Present

Sr. SQL DBA

Responsibilities:

- Installed, configured, and managed Server 2019, 2017, 2016, and 2014 both in production and lower environments.
- Involved in the design and deployment of robust SQL Server solutions across AWS, Azure, and GCP platforms, focusing on high availability and disaster recovery strategies.
- Built and maintained SQL databases and warehouses, ensuring scalability and performance optimization,

leveraging technologies like vSphere and Nutanix for virtual infrastructure management.

- Implemented CI/CD pipelines using Jenkins, Git, and Ansible to automate and streamline database deployments and updates in a DevOps environment.
- Developed complex SQL queries and stored procedures for transactional processing and analytics in SQL Server, Azure SQL DB, and MySQL/MariaDB environments.
- Used PowerShell and Ansible scripts extensively for automation of DBA activities, reducing manual effort and improving system reliability.
- Designed disaster recovery and backup solutions, configuring SQL Server and Azure SQL databases to ensure data integrity and availability.
- Configured VMware environments to optimize the performance of SQL databases, effectively managing multiple VMs and leveraging VMware tools for better resource utilization.
- Worked as a key architect and developer in the setup of ETL processes, integrating multiple data sources into centralized data warehouses to support business intelligence initiatives.
- Created and managed user permissions and roles using SQL Server Service Broker to ensure secure data access and transaction handling in production environments.
- Managed a team of junior DBAs, overseeing their work in monitoring, tuning, and debugging SQL databases to maintain optimal performance and uptime in production environments.
- Involved in designing and implementing complex database solutions using Microsoft SQL Server to enhance business operations and ensure data reliability.
- Built and maintained robust Redis caching mechanisms to optimize data retrieval and improve application performance.
- Implemented DevOps practices for database systems to streamline deployment and enhance collaboration between development and operations teams.
- Developed comprehensive backup and recovery strategies to safeguard critical data and ensure business continuity in case of system failures.
- Used TSQL and Python for developing automated scripts for database maintenance, ETL processes, and performance tuning.
- Designed and configured database systems on Postgres and MS SQL Server, focusing on optimizing RDBMS performance and scalability.
- Worked closely with IT teams to manage and execute failover processes during planned and unplanned downtimes, ensuring minimal service disruption.
- Created Data Governance frameworks to maintain data integrity and compliance with industry standards and company policies.
- Managed the complete lifecycle of database administration, from initial design through implementation, maintenance, and support.
- Configured OLAP and SSAS services for complex data analysis and reporting needs, enhancing business intelligence capabilities.
- Used my problem-solving skills to effectively resolve database performance issues and optimize SQL queries for faster execution.
- Developed strong verbal communication and customer support skills, providing clear and effective communication to both technical and non-technical stakeholders.
- Designed and implemented comprehensive enterprise data management strategies to optimize performance and ensure security within Microsoft SQL Server environments.
- Developed and managed multiple OLAP cubes to enhance analytical capabilities and support complex data analysis needs in a SaaS model.
- Involved in full lifecycle management of database systems, from initial design through implementation, maintenance, and upgrades.
- Built robust data warehouses, integrating diverse data sources to create a unified repository for advanced data analytics and reporting.
- Configured and optimized database solutions on Microsoft Windows Server, ensuring high availability and minimal downtime.
- Used Scorch for automation of system tasks and efficient management of SQL Server databases,

significantly reducing manual overhead and improving system reliability.

- Worked closely with systems engineering teams to support application development and optimize infrastructure for better performance and scalability.
- Created detailed documentation and training materials for database management systems, facilitating smoother onboarding and consistent application support practices.
- Managed customer service inquiries related to database issues, providing expert advice and solutions to enhance user satisfaction and service quality.
- Implemented security measures and conducted regular security audits to safeguard sensitive data and comply with regulatory requirements.
- Used Microsoft Office tools extensively to generate reports, create presentations, and communicate effectively with stakeholders across all levels of the organization.
- Designed and implemented robust database solutions using Microsoft SSIS to enhance data integration and migration processes.
- Developed and managed complex SQL scripts and ETL packages for large scale data extraction, transformation, and loading tasks.
- Configured and maintained API interfaces, including SOAP, to ensure seamless data communication between various software applications.
- Built and oversaw cloud computing strategies to optimize database services across Microsoft Azure, enhancing scalability and performance.
- Worked closely with software development teams, adopting structured methodologies to ensure efficient project execution and deliverables.
- Created detailed database design architectures, optimizing data storage, retrieval, and scalability for multi-terabyte databases.
- Used a variety of operating systems (Windows Server, Linux) to deploy, manage, and maintain SQL Server databases ensuring high availability and performance.
- Implemented quality assurance processes in database management to minimize errors and enhance the reliability of data.
- Managed business analytics tools and processes to support strategic decision-making and operational efficiency across departments.
- Configured and maintained clustering solutions to ensure high availability and disaster recovery of SQL Server databases.
- Involved in team collaboration initiatives to develop and refine project goals, timelines, and outcomes through effective communication and alignment of team skills.
- Evaluated existing database policies and procedures, and developed enhancements to improve security, compliance, and operational efficiency.
- Focused on attention to detail in database design, query optimization, and system configuration to prevent data inconsistencies and integrity issues.
- Created comprehensive disaster recovery plans to ensure quick recovery and minimal downtime in case of database failures.
- Involved in ensuring data integrity and security across multiple SQL Server environments, including Azure SQL, MariaDB, and MySQL, adhering to best practices in database security and risk management.
- Built and optimized database solutions for capacity management, utilizing tools and methodologies to effectively forecast and plan for storage and processing needs.
- Implemented a robust reporting framework using Microsoft SSRS and Power BI, enabling real-time data analytics and decision-making capabilities.
- Developed complex Transact-SQL scripts for data manipulation and business logic implementation, enhancing database performance and functionality.
- Used Crystal Reports to create detailed, actionable reports for various business units, improving operational efficiency and insight.
- Designed comprehensive backup and recovery strategies to ensure minimal downtime and data loss in case of system failures.
- Configured SQL Server and Azure SQL environments for optimal performance, integrating best practices in

systems architecture and data modeling.

- Worked closely with IT and business stakeholders to support ERP implementations, focusing on Master Data Management and ensuring consistency across data sources.
- Created detailed documentation on database setups, configurations, and routine maintenance procedures, ensuring knowledge transfer and compliance with corporate standards.
- Managed production support teams, guiding daily operations, troubleshooting issues, and providing solutions to complex database-related problems.

Home Depot

October 2019 – September 2022

SQL Server Database Administrator

Responsibilities:

- Managed and optimized multiple database management systems, including MySQL, PostgreSQL, & MSSQL Server.
- Responsible for all servers running in SQL platform (SQL Server 2005/2008/2008 R2/2012/2014/2016/2019/2022).
- Spearheaded performance tuning initiatives, optimizing complex queries and database configurations, resulting in a 30% improvement in system responsiveness.
- Designed and implemented high availability and disaster recovery solutions using AlwaysOn Availability Groups, ensuring uninterrupted access to critical data and minimizing downtime during system failures.
- Implemented robust security measures, including role-based access control and encryption, ensuring compliance with industry regulations such as GDPR and HIPAA.
- Led database design efforts, applying advanced normalization techniques and optimization strategies to enhance scalability and performance of database schemas.
- Orchestrated seamless data migration and upgrade projects, managing cross-platform migrations and version upgrades with minimal disruption to operations.
- Developed automation scripts using PowerShell and Python for routine tasks, monitoring, and maintenance, resulting in a 40% reduction in manual effort.
- Conducted capacity planning and resource management, optimizing resource allocation and ensuring optimal database performance and scalability.
- Diagnosed and resolved complex database issues, leveraging advanced troubleshooting skills to identify performance bottlenecks, connectivity problems, and data corruption.
- Established comprehensive backup and recovery strategies, including full, differential, and incremental backups, and point-in-time recovery, meeting stringent recovery point objectives (RPO) and recovery time objectives (RTO).
- Implemented database monitoring solutions and customized alerting mechanisms, proactively detecting and addressing issues to maintain system availability and performance.
- Managed databases in cloud environments such as AWS and Azure, leveraging cloud-specific features and best practices for efficient database administration.
- Configured and maintained database replication solutions for distributing data across multiple servers, enhancing scalability and ensuring disaster recovery readiness.
- Led database patching and upgrade initiatives, applying service packs and security patches while minimizing downtime and ensuring smooth transitions.
- Established performance baselines and monitored system performance using PerfMon, SQL Profiler, and other monitoring tools, analyzing performance trends and optimizing system performance.
- Leveraged database consolidation techniques and virtualization technologies to optimize resource utilization and reduce infrastructure costs.
- Implemented database automation and DevOps practices, automating database deployments and configuration management to accelerate software delivery cycles.
- Ensured database governance and compliance, adhering to regulatory requirements and implementing best practices for data integrity, confidentiality, and compliance.
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- Spearheaded end-to-end migration of SQL servers from on-premises infrastructure to PostgreSQL.

- Designed and deployed secure and compliant database schemas, integrating encryption, and access controls.
- Implemented infrastructure as code (IaC) practices for efficient, consistent, & reproducible deployments.
- Proficiently setup and configured AlwaysOn Availability Groups (AO AG) and Windows Server Failover Clustering (WSFC) for high availability and disaster recovery.
- Efficiently scheduled backups (transaction log, differential, and full), along with recovery sessions (Simple and Full).
- Optimized SQL queries, CDC processes, stored procedures, functions, indexes, & views to enhance DB performance.
- Created SQL auditing report to identify/remove unauthorized users with SQL/Windows logins, ensuring data security.
- Configured Replication for production servers to provide high availability & supervised using Replication Monitor.
- Established automated alert, notification, & job scheduling systems, including configuration of responsive solutions.
- Utilized Big Data technologies like Hadoop and Spark to process and analyze large datasets.

Tata Consultancy Services Ltd., Gurgaon, India

June 2016 – June 2019

Client: Damen/Stolt, Netherlands

IT Analyst (SQL DBA)

Responsibilities:

- Proposed & implemented SQL consolidation project, resulting in elimination of SQL Dedicated environments.
- Automated SQL tuning jobs, resulting in significantly increased efficiency & reduced operational time.
- Developed SQL proactive health check, job failure, & blocking reports, enabling timely identification & resolution.
- Implemented and managed quarterly SQL Server permission reviews and modifications.
- Collaborated with cross-functional teams to gather requirements, design solutions, & deliver optimization strategies.
- Monitored & fine-tuned SQL query performance, optimizing DB response time & enhancing system performance.
- Documented data architecture, established efficient pipelines, and documented best practices for knowledge sharing.

HCL Technologies Ltd., Noida, India

August 2013 – May 2016

Client: Dow Jones, USA

Senior Analyst (SQL DBA)

Responsibilities:

- Successfully installed & configured SQL Server on Windows/AWS platform, ensuring seamless deployment.
- Led the migration of databases from legacy systems to SQL Server, ensuring data integrity & minimal downtime.
- Implemented efficient backup strategies for large-scale databases, ranging in terabytes size, ensuring data protection.

- Executed SQL scripts efficiently in production environment & resolved issues in record TAT, minimizing downtime.
- Experience with disaster recovery on SQL standalone and clustered environments.