Sowmya Nuchu

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PROFESSIONAL SUMMARY

Experienced **Business Data Analyst and Database Developer** with a strong commitment to leveraging my expertise in database management and data analysis to drive operational excellence. My professional background encompasses all phases of SDLC methodologies, from requirements gathering to post-production support. I am dedicated to delivering successful projects that bring meaningful change and enhance organizational efficiency. My skills in transforming complex data into actionable insights enable stakeholders to make informed decisions. I excel in optimizing data environments to ensure integrity and accessibility. I am committed to fostering collaboration and effectively communicating technical information to non-technical stakeholders.

TECHNICAL SKILLS

Frontend /Backend: MySQL,T-SQL,PL/SQL, Unix, Linux, Shell Scripting, Perl, Python, DAX, Java, ETL, SSIS, SSRS, SSAS, SSMS, Abinitio, KNIME, Autosys, PowerBI, Tableau, Redgate, Snowflake, Abinitio, Informatica, HTML5,CSS.

DevOps and Cloud: Azure, AWS, GitHub, Octopus, Redgate SQL,JIRA,Confluence,SQL Loader,Jenkins,Tectia,Bitbucket

Version Control Tools: GIT, GitHub, Bitbucket, Confluence

Business & Management Skills: Analytical**,** Leadership, Project Management, JIRA, MS Office, Cross-functional Collaborations, Functional Requirement Documentation, Agile Methodologies , DEVOPS, AND GIT, Business Requirement Documentation, Software Development Lifecycle(SDLC), Microsoft Excel, SLA, Microsoft PowerPoint.

WORK EXPERIENCE

Associate Analyst   Feb 2024 – Present
PI Software Solutions   Indianapolis IN

- Leveraged advanced **SQL/Teradata** to transform company analytics data by modifying data types and removing unnecessary columns, ensuring data sets were optimized for analytics and reporting.
- Interpreted and analyzed data requirements and specifications using **Advanced Statistical Techniques** to generate actionable insights and ongoing reports, ensuring data-driven decision-making.
- Developed comprehensive matrices using **Excel**, facilitating detailed insights and improving decision-making across various business functions through precise KPI metrics.
- Demonstrated strong **Organizational Skills** with attention to detail by effectively identifying and resolving technical issues in a fast-paced, dynamic environment, ensuring system performance and data integrity.
- Analyzed remote work trends and preferences using **Advanced Excel Calculations** to determine the percentage of employees working from home, informing strategic workforce planning and aligning with relevant **KPI metrics**.

Data Analyst   Jun 2023 – Aug 2023
Cambium Learning Group   Dallas ,TX

- Configured **TIDE** using SQL and web-based UI tools, focusing on coding, troubleshooting, and performance tuning to ensure seamless integration and optimal system performance.
- Created ad-hoc reports using **SQL, DDL, and DML**, significantly enhancing report accessibility and response time in an **Azure SQL** database.
- Developed, debugged, and maintained complex **SQL** and **PL/SQL** code in a large corporate environment, leveraging modern programming languages and database querying languages to support business needs.
- Optimized SQL queries for XML content and Azure SQL, boosting overall efficiency in data retrieval processes and system performance.
- Employed **Advanced Statistical Analysis** and **Data Visualization** techniques to analyze complex datasets, facilitating better decision-making and insights.
- **Implemented and maintained database architecture**, including table indexes and statistics, to achieve optimal performance and reliability.
- **Utilized tools for query optimization and performance tuning**, enhancing overall database performance, data security and reducing query execution time.
- Engineered **dynamic SQL** queries to analyze client feature usage, driving targeted product enhancements.

Business Data Analyst   Aug 2022 –May 2023
Purdue University   Indianapolis IN
- Tutored over 50 students in **ETL** and software engineering languages and **Data Mining,** that included MS SQL Server, Informatica, Oracle, PL/SQL, Unix, Machine Learning ETL process and Python.
- Optimize code performance and scalability, employing best practices in **Python** programming and leveraging parallel processing techniques for efficient data handling.
- Leveraged advanced **SQL** to participate in multiple **Artificial Intelligence and Machine Learning** (ML/AI) projects, contributing to the database design, development, and deployment phases with robust data solutions.
- Developed and maintained **ETL** processes using **SSIS**, optimizing data extraction, transformation, and loading across various data sources, and ensuring seamless integration with Tableau for enhanced data visualization and reporting.
- Applied advanced PowerPoint to present **Database Design** best practices and architectural frameworks, providing clear and impactful visualizations, while mentoring junior developers to elevate team capabilities and maintain high standards.

Associate Consultant   Jul 2018 – Jul 2022
CITIBANK   Hyderabad, India

Sybase Exit of LRR
- Led cross-functional agile meetings with a team of four, closely collaborating with Business Analysts (BA) and the Data Architect to understand business user stories, accurately interpret data modeling, and define the scope for designing the ETL data flow.
- Demonstrated effective communication skills to collaborate with stakeholders, present findings clearly and concisely, and ensure alignment and understanding across teams.
- Developed and implemented **ETL/ELT Data Pipeline** flows to load data from various sources into the staging database, ensuring efficient **Data Integration** and processing.
- Developed and executed **Data Mapping and Data Transformation** processes, effectively managing requirements within and between applications and data sources to ensure accurate data integration.
- Orchestrated cross-functional collaboration to architect and implement innovative data integration solutions, facilitating a smooth transition from **Sybase (T-SQL)** to Oracle.
- Skilled in **UNIX** shell scripting and scheduling jobs, managed automation tasks using **Autosys** to **streamline batch processing** workflows.
- Experienced in Data Warehousing concepts and ETL processes, designed and implemented data integration and interface solutions to ensure accurate and timely data movement across systems.
- Administered and optimized **Microsoft SQL Server** databases, implementing performance tuning techniques to enhance query performance and overall database efficiency.
- Conducted **Unit and Integration Testing**, verifying that individual components and their interactions function correctly and meet specified requirements.
- Implemented **CI/CD pipelines** using tools such as **Jenkins** and **GitHub**, automating the build, test, and deployment processes to ensure continuous integration and delivery of high-quality software.

Local Regulatory Reporting(LRR)
- Directed cross-functional meetings with Citibank client stakeholders, ensuring clear comprehension of project requirements and accurate development estimates.
- Executed Extract, Load, transform (**ETL/ELT**) processes to generate banking reports according to Basel requirements, providing valuable data insights to stakeholders for informed decision-making, contributing to an increase in data-driven decisions.
- Developed **complex queries,** CTEs, subqueries, **Database Schemas ,stored procedures,** windowed aggregations , triggers **APIs, and functions** in Microsoft SQL Server using **T-SQL**, ensuring efficient data processing and retrieval.
- Created and implemented **Data Auditing/Reconciliation protocols and procedures**, conducting root cause analysis, recommending corrective actions, executing fixes, and escalating issues as necessary.
- **Experienced in Data Warehousing concepts and ETL processes**, designed and implemented data integration solutions to ensure accurate and timely data movement across systems.
- Collaborated closely with users to develop mapping logic and process large volumes of data, utilizing **PL/SQL** to support high-priority development projects, resulting in a increase in project efficiency.
- Efficiently handled **Data Migration and Batch Processing** by utilizing **Autosys** for job automation and scheduling, **PowerShell** scripting, and Perl technologies, ensuring seamless and accurate data flow into the system.
- Experience in data modeling concepts, including dimensional/fact modeling, cardinality, and normalization, to ensure robust data.
- Utilized **Atlassian tools such as Jira and Confluence** to manage project tasks, documentation, and collaboration.
- Demonstrated relentless motivation in working with large and complex datasets by committing to the quality of data sets and reports created by the team, ensuring that they are both repeatable and sustainable.
- Engaged in unit testing and user acceptance testing (UAT) to validate extracted data against user requirements.

Certification & Awards

- Certified by **Accenture North America** in Data Analytics and Visualization Job Simulation – 2024
- LinkedIn Learning Certificate - **Business Analyst** and Project Manager Collaboration – 2023
- LinkedIn Learning Certificate- **AWS Cloud** Practitioner Essentials-2024.
- **Spot Award** by Virtusa for the pro-active stand in the project during the year 2021.
- Received **Stellar award** from Virtusa for on-time delivery during the year 2022.

Key Achievements

- Improved Oracle database performance by 40% through query optimization and tuning techniques.
- Achieved 100% compliance with financial regulations for critical reporting systems in a global financial institution.
- Reduced data processing times by 30% by developing efficient PL/SQL batch processes for data migration and transformation.
- Streamlined database workflows, leading to a 25% increase in data-driven decision-making for business stakeholders.

EDUCATION

Master Of Science in Computer and Information Science, Purdue University, Indiana   2023
Bachelor Of Technology in Computer Science, Jawaharlal Nehru Technological University, Hyderabad   2018