

Karthikeyan Thiyagarajan

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Summary

Results-driven and highly skilled Technical Engineer with over 2+ years of expertise in advanced MS-SQL development and database management. Proficient in query optimization, data modeling, and database design, with a focus on performance tuning and data integration. Experienced in developing complex stored procedures, triggers, and functions to streamline data manipulation and retrieval. Adept at ETL processes, and SSIS for efficient data integration.

Skilled in SSRS for report development and data visualization. Strong analytical and problem-solving abilities, with excellent communication and collaboration skills. Seeking a challenging role to leverage my updated skill set and contribute to the success of an organization.

PROFESSIONAL EXPERIENCE

March (2021)-Present

Company: ThemePro Technologies, Chennai.

Designation: Technical Engineer

Role: MS-SQL Developer

Project: Integrated Business Suite (HomeFinance)

Client: CanFin Homes Ltd., Bangalore.

Roles and Responsibilities:

- Collaborated with clients to analyze requirements and design advanced MS-SQL database solutions, implementing best practices for performance tuning and optimization.
- Developed and optimized complex MS-SQL queries, leveraging query optimization techniques and execution plans to improve system performance and efficiency.
- Developed stored procedures, triggers, and functions to facilitate data manipulation, streamlining processes and enhancing productivity.
- Led successful data integration projects, employing ETL processes and SSIS for seamless data transfer and consolidation of data from multiple sources.
- Created interactive reports and dashboards using SSRS, providing actionable insights and data visualization to stakeholders for informed decision-making.
- Monitored and fine-tuned database performance, identifying and resolving bottlenecks, optimizing query execution, and ensuring optimal system response time.
- Utilized SQL Server Analysis Services (SSAS) to develop OLAP cubes, enabling multidimensional data analysis and enhancing business intelligence capabilities.
- Collaborated effectively within cross-functional teams to deliver high-quality solutions within project timelines.

PROJECTS:

Inspection Data Integration:

- Led the design and implementation of an Inspection-wide data integration solution, using ETL processes and SSIS, to consolidate data from multiple systems into a centralized data warehouse.
- Developed optimized data extraction, transformation, and loading strategies, ensuring data accuracy and consistency.
- Created a unified data model and schema design, facilitating efficient data retrieval for reporting and analysis purposes.

Business Intelligence Dashboard:

- Developed a dynamic business intelligence dashboard using SSRS, providing real-time visualizations of key performance indicators (KPIs) and enabling data-driven decision-making for stakeholders.

Centralized Disbursement System :

Database Design: Devised a structured SQL database schema to house disbursement data, keeping it well-organized.

Normalization: Ensured data efficiency and accuracy by employing normalization techniques, reducing redundancy.

Stored Procedures: Crafted specialized stored procedures to manage intricate disbursement transactions, enhancing data integrity and reliability.

Functions: Developed custom functions to calculate payment amounts, reducing human errors and ensuring consistency.

Data Modeling: Constructed clear Entity-Relationship Diagrams (ERDs) to visualize database relationships effectively.

User Authentication: Implemented role-based user authentication to control access privileges for different user categories.

Transaction Processing: Formulated optimized SQL queries and executed through stored procedures for precise transaction handling.

Reporting and Analytics: Utilized stored procedures to generate insightful reports on expenditure patterns and project-specific costs.

Collaboration: Collaborated closely with multidisciplinary teams to gather requirements and provide technical insights.

Skills

- Advanced MS-SQL Development and Optimization
- Data Modeling and Schema Design
- Query Optimization and Execution Plans
- Stored Procedures, Triggers, and Functions
- Data Integration (ETL processes, SSIS)
- SQL Server Profiler
- SSRS (SQL Server Reporting Services) and Report Development
- Database Performance Monitoring and Tuning
- Database Security and User Access Management
- SQL Server Analysis Services (SSAS) for OLAP Cube Development
- Business Intelligence and Data Visualization
- Version Control Systems (Git, SVN)
- Strong Analytical and Problem-Solving Skills
- Excellent Communication and Collaboration Abilities

Technical:

Database	MS-SQL Server 2017/2019
Tools	Power Bi,SSRS,SSIS,SSMS

Education



Bachelor's Degree | 2016-2019 |

- Major: B.sc (Computer Technology)
- College: Sree Saraswathi Thyagaraja College, Pollachi.

PROFILE LINKS



Declaration

Hereby, I declare that the information and facts here in stated above are true to the best of my knowledge and belief.

A u t h e n t i c a l l y,

Karthikeyan N.T