**Tahmina Hoque**

**Sr. SQL/BI Developer**

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Experienced Senior SQL/ BI Developer around 8 years of expertise in designing and implementing strong Business Intelligence solutions across diverse sectors, including Healthcare, Finance, Banking, and Insurance. Proficient in Microsoft SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), and SQL Server Analysis Services (SSAS). Skilled in data modeling, ETL development, and advanced SQL querying. Expertise in Power BI and other BI tools for data visualization and interactive dashboards. Experience in database administration activities like database refreshing, job monitoring, release deployment, installation, configuration, process monitoring, database backup, restore, and database server upgrades. Possesses strong analytical and problem-solving skills for data-driven decision-making insights. Additionally, a collaborative team player with excellent communication skills, and committed to staying updated with emerging technologies. Overall, a results-driven professional focused on exceeding organizational success.

**Professional Summary:**

* **Expert in T-SQL query writing**, SQL database development, and performance tuning, ensuring efficient data management and retrieval
* Proficient in **SQL Server**, with in-depth knowledge of **triggers, tables, functions, views, indexes**, and **data integrity** maintenance.
* Skilled in **SQL query optimization**, performance tuning, and regular database maintenance for robust and efficient database solutions.
* Well-versed in **RDBMS principles** and database design, utilizing **SQL Server** and **SQL Azure** for scalable database structures.
* Extensive experience with the **Microsoft BI suite** (T-SQL, SSRS, SSIS) and **data warehousing** concepts for comprehensive data solutions.
* Hands-on experience in **SQL Server installation, configuration,** and troubleshooting, providing reliable system performance.
* Proficient in **ETL development** using **SSIS**, covering **data extraction, transformation, and loading** (ETL) processes.
* Familiar with **Azure Data Factory** for designing ETL workflows, dependency visualization, and data orchestration in cloud environments.
* Strong skills in **Power BI** for interactive **report** and **dashboard development**, enhancing data-driven decision-making.
* Proficient in **Tableau** for advanced **visualization** and **dashboard solutions**, delivering actionable insights.
* Experienced in **SSRS report development**, including drill-down reports for dynamic and in-depth data analysis.
* Knowledgeable in **source control tools** such as **Team Foundation Server (TFS)** and skilled in **project management methodologies** to streamline development processes.
* Familiar with creating **groups, measures, and KPIs** in **Azure Data Factory** to support advanced data analytics and reporting.
* Experienced in **SQL Server performance tuning**, focusing on **query optimization, index management,** and **system tuning** to boost database efficiency.
* Skilled in **data modeling** and **warehouse optimization**, employing **dimensional modeling** and **star schema design** to support business intelligence.
* Proficient in using **PowerShell** and **Python** for **custom scripting**, enhancing workflow automation across **sFTP, AWS S3,** and **Azure Blob storage**.
* Active participant in **Agile methodologies** and experienced with **Jira** and **Azure DevOps** for collaborative project management, sprint planning, and code reviews.
* Strong foundation in **Data Science** and **Big Data** tools, including **Python, R, SQL, Tableau, Sci-kit Learn, Hadoop**, and **PySpark**.
* Highly competent in **Data Integration, Validation, and Data Quality controls** for ELT processes using **MS Visual Studio, SSAS, SSIS,** and **SSRS**.
* Excellent **communication and analytical skills**, highly motivated, and committed to delivering effective and optimized database solutions.

**Work Experience:**

**Client: Ciox Healthcare - NY**

**Duration: 09/2022 - Present**

**Position: Sr. SQL/BI Developer**

**Responsibilities:**

* Creating and managing schema objects like Tables, Views,Triggers & **I**ndexes, and SQL joins for applications.
* Working with DDL, DML scripts, and establishing relationships between tables.
* Database tuning, SQL tuning, and performance planning.
* Utilizing joins and sub-queries to simplify complex queries.
* Writing complex T-SQL queries, triggers, functions, and stored procedures.
* Constructing tables, user-defined functions, views, and indexes.
* Ensuring data integrity and relational database models.
* Utilizing SQL joins and query writing.
* Implemented CI/CD pipelines using Git, Jenkins, and Azure DevOps to automate the deployment of data engineering solutions.
* Developing SSIS packages for data extraction, transformation, and loading.
* Mapping data and migrating SQL server objects between environments.
* Utilizing SQL Server profiler to capture execution plans and creating indexes.
* Implementing intelligent systems and event handling in SSIS.
* Creating interactive reports and visualizations using Power BI and Tableau.
* Designing and developing dashboard reports in Power BI / Tableau.
* Developing matrix and tabular reports with drill-down functionality using SSRS.
* Creating ad-hoc reports, summaries, and drill-down reports using SSRS.
* Implementing Data Warehousing concepts and modeling techniques.
* Understanding normalization/de-normalization and database design methodologies.
* Design and implement data pipelines for processing time-series data using Seeq for real-time analytics.
* Building tabular models and cubes using SSAS.
* Creating business critical KPIs using SSAS.
* Migrated data from on-premises SQL Server to cloud databases (Azure Synapse Analytics, Azure SQL DB).
* Implementing Azure DevOps solutions for source control, work item tracking, build, and release management.
* Scheduling jobs in Flows and ADF pipelines.
* Implementing backup methodologies using PowerShell scripts for Azure services.
* Setting up Power BI environment, creating app workspaces, publishing apps, and configuring Power BI Gateway.
* Gathering report requirements and determining the best reporting solution (SSRS or Power BI).
* Developed real-time data processing pipelines using Spark Streaming, Spark SQL, and other Spark components to ingest, process, and analyze streaming data.
* Creating calculated columns and measures using DAX in Power BI.
* Building tabular model cubes and fetching data to SSRS and Power BI reports using MDX and DAX queries.
* Implementing event handlers and error handling in SSIS packages.
* Building data pipelines using Azure Data Factory.
* Working with logical and physical models in Erwin.
* Managing code repositories using Git (GitHub) as a distributed version control system.

Utilizing Agile teams (Scrum), JIRA for project management and the build/release process

**Environment:** MS SQL Server 2019/2016, Visual Studio, SSIS, SSRS, Power BI, Erwin, Tableau Server, SharePoint Server, JIRA, Azure Data Factory, Azure Data Lake, Azure DevOps, XML, JSON, Azure SQL, GitHub, MS Word, MS Excel, VBA, DTS, Microsoft Visio, Crystal Reports, PerformancePoint Server, FTP/SFTP server, Agile

**Client: FNB Bank - Philadelpia,PA**

**Duration: 10/2020 – 08/2022**

**Position: ETL/BI Developer**

**Responsibilities:**

* Wrote and optimized SQL statements to assist business intelligence practices.
* Assessed platform statistics to create customized, data-intensive BI analytics.
* Monitored and optimized SQL server performance.
* Automated BI reports for secure virtual server environment.
* Improved data gathering, analysis, and visualization procedures with strategic optimizations.
* Liaised with DevOps team to integrate business intelligence assets into future development lifecycles.
* Performed database creation (DDL, DML, DCL) and worked on tuning and optimizing SQL performance.
* Created databases, schema objects (tables, stored procedures, views, indexes), and applied constraints.
* Ensure data integrity and accuracy within Seeq by managing data cleansing, validation, and transformation processes.
* Designed and developed Data Warehouses based on business needs.
* Migrated data from on-premises SQL Server to cloud databases.
* Extensively worked on dimensional modeling, data cleansing, and data staging for operational sources.
* Implemented data quality checks using Spark Streaming and arranged passable and bad flags on the data.
* Created and modified database objects like tables, stored procedures, views, and indexes.
* Developed DAX queries and manipulated multidimensional data in Tabular Model cubes.
* Transferred data between SQL Server databases using tools like SSIS, BCP, DTS, and BULK INSERT.
* Migrated ETL logic from SSIS and MS Access to Azure Data Factory without altering business logic.
* Staying up to date with the latest trends and best practices in data engineering, data streaming, and Kafka.
* Loaded and transformed data from multiple sources into Power BI Dashboards.
* Utilized SSIS packages to extract and load data into a data mart.
* Used metadata driven SSIS packages to extract data from different sources and load into a data mart.
* Migrating and converting reports from Crystal Reports to SSRS.
* Upgraded DTS to SSIS and monitored the deployment of SSIS packages.
* Integrated BI assets into CRM and customer relationship management tasks for improved intelligence.
* Developed reports for business end users using SSRS, Tableau, and Power BI.
* Liaised with DevOps teams to integrate business intelligence assets into future development lifecycles.
* Designed data ingestion and integration pipelines using Azure Data Factory to streamline data flow from various sources.
* Designed and implemented Power BI and Tableau visualizations based on business requirements.
* Developed interactive visualizations and automated processes for standardized dashboards.
* Developed reports for business end users using SSRS, Tableau, and Power BI.
* Developed data deduplication and cleansing processes using Python and Azure Data Factory, maintaining data integrity and performing data validation.
* Built and published Tableau reports with calculated fields, table calculations, and filters.
* Utilized data blending, grouping, calculated fields, and aggregation to analyze data.
* Created various types of reports using SQL Server Reporting Services (SSRS), such as tabular, matrix, gauges, charts, and parameterized reports.
* Formatted dashboards, charts, and KPIs using Power View.
* Added interactivity and comparison features to worksheets and dashboards.
* Created various visualizations, including side-by-side bars, scatter plots, stacked bars, heat maps, filled maps, and symbol maps, based on project specifications.

**Environment:** MS SQL Server (2017/2019), Visual Studio, SSAS, SSIS, SSRS, Power BI, Tableau, ETL server, Erwin, SharePoint, JIRA, Agile, Data Warehouse, ADF, Azure Data Lake, Azure DevOps, XML, Azure pipelines, Azure SQL, GitHub, Git.

**Client: Care Source - Dayton, Ohio**

**Duration: 10/2018 – 08/2020**

**Position: SQL/SSIS/SSRS Developer**

**Responsibilities:**

* Wrote complex SQL scripts for data transformation, loading, and mapping.
* Optimized queries, normalized tables, and ensured data integrity.
* Created stored procedures, triggers, functions, indexes, and views.
* Tuned databases, performed partitioning, and optimized ETL/queries.
* Converted DTS packages to SSIS and migrated SSIS packages.
* Used SSIS for data extraction, transfer, and loading.
* Leveraged Spark Core for the foundation of Apache Spark applications to ensure high performance and scalability.
* Implemented MS Analysis Services, tuned cube partitioning, and designed dimensions.
* Optimized query performance with SQL Server Profiler traces.
* Utilized DAX for custom calculations in PowerPivot and Analysis Services.
* Standardized Power BI dashboards gathered report requirements.
* Developed Tableau dashboards with various visual elements.
* Created user interface reports in Tableau with different objects.
* Developed MDX scripts for interactive drill-down reports and models.
* Created various report types using SSRS (crosstab, conditional, drill-down, OLAP, sub-reports).
* Designed and developed tabular reports, matrix reports, and charts using SSRS.
* Gathered user requirements, drafted specifications, and wrote test scripts.
* Integrated Tableau views/workbooks/dashboards on external websites with AngularJS.
* Developed database applications using agile methodology.
* Managed BI environment, including models, ETL tools, data warehouse, and reporting tools.
* Managed database access and migrated databases to Azure Data Lake store using Azure Data Factory.
* Used Azure tasks for downloading/uploading blobs.

**Environment:** SQL Server 2017/2019, SSIS, SSRS, Visual Studio, SQL Server Profiler, Tableau, Power BI, Azure DevOps, Azure SQL Database, Azure Data Factory, Azure Data Warehouse, JIRA, Agile, Git.

**Client: Best Buy - Richfield, MN**

**Duration: 10/2016–09/2018**

**Position: Jr. SQL Developer**

**Responsibilities:**

* Analyzed existing SQL queries to identify opportunities for improvements.
* Oversaw authentication and authorizations for databases.
* Write SQL queries for data retrieval, manipulation, and analysis.
* Develop and maintain SQL scripts, stored procedures, and functions for database operations.
* Implemented Spark streaming jobs to continuously retrieve data from Apache Kafka, subsequently storing the streaming information into Hadoop HDFS.
* Assist in database design, normalization, and data modeling activities.
* Support data migration and integration using SQL Server Integration Services (SSIS).
* Experienced in utilizing Jira Service Management for handling data engineering-related incidents, problems, and service requests, ensuring prompt resolution and minimal downtime.
* Collaborate with business analysts to translate reporting requirements into SQL queries and procedures.
* Create reports using SQL Server Reporting Services (SSRS) and design interactive dashboards with Power BI or Tableau.
* Perform data validation, quality checks, and implement data integrity constraints.
* Optimize SQL queries for improved database performance and efficiency.
* Troubleshoot and resolve database-related issues in collaboration with senior developers.
* Document database processes, procedures, and technical specifications.
* Stay updated with advancements in SQL development and reporting tools.
* Collaborate with team members to deliver projects on time and meet technical standards.
* Designed and developed customized extract, transform and load (ETL) applications per client specifications.
* Performed regular database backup.
* Maintained data delivery pipelines to support consistent and reliable availability.

**Environment:** My SQL Server (2017/2016/2014/2012), SSIS, SSRS, SSAS, Visual Studio, SQL, T-SQL, XML, HTML MS Excel, Data warehouse, Report Builder, Query Analyzer, Agile.

**EDUCATION:**

* Bachelor of **Science**.
* Masters of **Science**.
* Associate Degree (in **Computer Information system**): City University of New York, BMCC, NY

**CERTIFICATIONS:**

* MCSA- Administering Microsoft SQL Server 2012/2014 Databases
* CompTIA Security+ Certification and 've earned a badge from CompTIA.
* AWS Certified Cloud Practitioner
* Microsoft Certified: Azure Fundamentals (AZ-900)
* Microsoft Certified: Azure Data Fundamentals (DP-900)