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Nabina Barun Singh

SQL / ETL/BI Developer

Summary

- An IT Professional having more than 5 years of practical experience in building new or enhancing existing reporting Data Warehouse in both – On Premise and Cloud environments.
- Proficient in Software development Life Cycle phases, including application Analysis, Reverse Engineering, Design, Development, Testing, troubleshooting and Implementation of Data Warehouse projects and applications.
- In Depth knowledge of Data manipulation techniques and computer programming paired with expertise in integrating and implementing new software packages into the system.
- Well versed with Microsoft SQL Server- On Premise RDBMS, initiated with On Premise Data Warehouse, Integration, Analytics and reporting Services along with database development
- Studied Cloud Concepts and Services offered by Microsoft Azure, involved in the process of efficiently reducing capital expenditure and promoting minimum operational expenditure of overall IT assets and infrastructure.
- Proficient in designing highly flexible Database Architectures and Data Modeling, Data Mapping, Data Cleansing, Data Scrubbing and Data Migration
- Strongly experienced in Data Modeling, Data Normalization up to 3rd NF and Dimension Modeling using Star and Snowflake Schemes.
- Expertise in database programming and performance tuning of Stored procedures, User Defined Data Types, Triggers, Constraints, Indexes, Sub-queries, Joins, CTEs and Batch Scripts using T-SQL.
- Experienced in Huge data migrations, huge data transfers, ETL processes using SSIS, DTS for Data warehouse implementation Projects involving conversion of data from heterogeneous sources like DB2 and Oracle.
- Implemented Full, Incremental and Remigration ETL workflow and data pipelines for Staging, Data mart and Data Warehouse databases.
- Experienced in handling late arriving dimension and late arriving facts scenarios in a Data Warehouse.
- Hands on experienced in creating cubes and dimensions, handling multi-dimensional reports.
- Experience in report development using SQL Server Reporting Services (SSRS) and creating various types of reports like table, matrix, and chart report, web reporting by customizing URL Access.
- Experienced in developing Azure Data Factory Pipelines , Integration runtimes, Linked Services and Data Sets using Data Factory Studio, JSON templates and C# APIs.
- Implemented reusable data flows (mapping and wrangling data flow activities) after identifying commonalities between tables and datasets.
- Copying files and tables from On Premise to Azure BLOB storage and Azure SQL Databases with Hot and Cold access tiers depending on the timely Partitions.
- Collaborated with DevOps Engineers to prepare automated CI / CD pipelines using Azure ARM templates as per deployment strategies.

Technical Skills

Languages: Python, C, C++, T-SQL, C#.Net, VB.Net

RDBMS: MS SQL Server 2014,2016,2019,2022, Oracle 10g, DB2.

Database Tools: SQL Enterprise Manager, SQL Profiler, SQL Client Configuration Utility, DTS import/Export, SQL Server BIDS/SSDT (SQL Server 2005, SQL Server 2012)

ETL Tools: SQL Server Integration Services (SSIS), SQL Server Integration Services (SSIS), DTS

Reporting Tools: SQL Server Reporting Services (SSRS), SQL Server Reporting Services (SSRS), and SQL Server Reporting Services (SSRS). Crystal Reports 8.6, Power BI

Data Modeling Tool: DTS, SQL Server Integration Services (SSIS) ER Studio, Microsoft Visio

Tools: MS Visio 2010, IIS 7, Control-M 7.0, Microsoft Project 2010, TFS 2010, Visual Source Safe 6.0., SVN, PowerShell, Github

Cloud Platforms: Azure SQL Database, Azure Data Factory, Azure Synapse Analytics, Azure DevOps

BI & Reporting Tools: Power BI (DAX, Power Query), SSRS, Crystal Reports

Education

Bachelors Degree

Experience

BAR HARBOR BANK & TRUST - BAR HARBOR, ME

Sr. SQL/BI Developer | DEC 2023 – present

Responsibilities:

- Engaged in project scope identification, aligning resources with project requirements and deliverables, defining timelines, and facilitating Scrum ceremonies including sprint planning, goal setting, demos, retrospectives, and daily stand-ups.
- Collaborated closely with DBA and Solution Architects, providing key input on database normalization/de-normalization strategies, and establishing referential integrity within RDBMS.
- Developed T-SQL code such as Stored Procedures, functions, triggers, Indexes and views for the application.
- Used Joins, correlated and non-correlated sub-queries for complex business queries involving multiple tables calculations from different databases.
- Created many Stored Procedures/Functions and used them in Reports directly to generate reports.
- Created SSIS package to load data from XML Files and legacy SQL Server to SQL Server by using Lookup, Fuzzy Lookup, Derived Columns, Condition Split, Term Extraction, Aggregate, Pivot Transformation, and Slowly Changing Dimension.

- Used SSIS to create ETL packages to Validate, Extract, Transform and Load data to Data Warehouse and Data Mart Databases.
- Developed Unit Test Plans for SSIS packages for checking the functionality of each component.
- Modified the existing SSIS packages to meet the changes specified by the users.
- Scheduled Jobs for executing the stored SSIS packages which were developed to update the database on Daily basis using SQL Server Agent.
- Developed and published Power BI dashboards for real-time analytics and reporting, improving business decision-making.
- Created reports to retrieve data using Stored Procedures that accept parameters.
- Scheduled the monthly/weekly/daily reports to run automatically onto the Dashboard
- Responsible for Monitoring and Tuning Report performance.
- Created various database objects like stored procedures, functions, tables, views.

Environment: MS SQL Server 2022, T-SQL, SSIS , SSRS , Power BI, Azure SQL, Azure Data Factory Python, Pandas, NumPy, Azure DevOps, Azure Repos, Erwin v7.2, ASP.Net, C#

MASS MUTUAL - SPRINGFIELD, MA

SQL Developer | May 2021 to Nov 2023

Responsibilities:

- Participated in Planning, Defining and Designing database based on business requirements and provided documentation.
- Translated requirements, designs and functional specs into use case document, test plans and test cases documents.
- Developed complex Stored Procedures, Triggers, Cursors, Tables and other SQL Joins and Statements for Applications by using T-SQL.
- Optimized stored procedures and long running scripts using execution plan, temp tables, and code rewriting and indexing strategies to increase speed and reduce run time. Programmed SQL statements which includes joins and functions.
- Worked extensively on SQL System Defined Functions and User Defined Functions.
- Worked closely with Senior DBA on Normalization of database tables, developed (DDL) and (DML) and built Referential Integrity for RDBMS
- Designed and implemented stored procedures and triggers for automating tasks.
- Implemented complicated transactions for the existing tables.
- Utilized Temp Tables to reduce the number of rows for joins, to aggregate data from different sources for different reports
- Responsible for performing T-SQL tuning and optimizing queries for reports which take longer time in execution.
- Involved in the troubleshooting of Database performance issues and implementing necessary DB changes.
- Designed and developed Packages on SSIS by using Different Transformations like Derived Column, Lookup, Sort and OLEDB command to Load Data into Destination.
- Developed SSIS packages, to retrieve data from various sources like OLEDB, Excel, Flat files and used data transformation.
- Loaded data from various sources to SQL Server database using SSIS packages.

- Worked on various work flows like Data flow Task, Script Task, Execute SQL Task, Containers and File System Task.
- Implemented the logging, Breakpoints, handled errors especially foreach loop and continued execution logging previous iteration error(s).
- Developed data import from Excel, Flat file to MS SQL Server by using BCP utility.
- Designed the functional and technical documents, report templates and reporting standards for the developers to work on the report development. Extracted data from star schema DSS data warehouse by creating and maintaining complex SSIS.
- Involved in building an extensive OLAP data warehouse on SSAS (Cubes, star schema)
- Developed cubes and dimensions and measures and calculated measures according to the business requirements.
- Developed customized reports and ad hoc reports as per the business requirements.
- Developed different data validation scripts for the Data analysts for verification of reports.
- Utilized Pivot tables to provide structure to Reports in proper format like months etc.
- Scheduled the Reports to run on daily and weekly basis in Report Manager and also emailing them to director and analysts to be reviewed in Excel Sheet.
- Involved in developing and modifying XML reports for exporting the reports to web application.
- Responsible for creating Test Cases, Test Plans and Release Notes.
- Developed, tested, and implemented robust Disaster Recovery Plan.

Environment: SQL Server 2019, Server Integration Services (SSIS), SQL Server Data Tools (SSDT), SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS), Power BI

BRIGHAM AND WOMAN'S WOMAN HOSPITAL - BOSTON, MA

Jr. SQL/ETL Developer | FEB 2020 to APR 2021

Responsibilities:

- Involved in Planning, Defining and Designing database based on business requirements and provided documentation.
- Interacted with Business Analyst, Subject Matter Experts and Stakeholders to understand the business needs and documented the complex business requirement into simpler one and automate the process by writing complex scripts and scheduling on the jobs.
- Developed logical and physical data models for schemas using MS Visio.
- Defined check constraints, rules, indexes, and views based on business requirement.
- Developed the Stored Procedures, Views, User Define Functions and Complex Queries.
- Created Temporary Table and Common Table Expression (CTE) for query Optimization.
- Designed SSIS Packages to extract, transfer and load (ETL) data from flat files to Staging database in SQL Server using Business Intelligence Development Studio.
- Designed ETL packages for extracting the data and load into the appropriate Dimension and Fact tables in the Data Warehouse and Data Mart databases using SQL Server Integration Services (SSIS).
- Designed SSIS Package step process to load data, validate data and Recommending task to resolve performance issue with loading data into the Data Warehouse.

- Involved in development of Incremental Load Process using SSIS Packages and various Transformation and data cleansing activities using various Control Flow and Data Flow tasks in SSIS packages during data migration.
- Designed Console application to generate Single .CSV and text file from Different relational Database table using SSIS and C#.
- Involved in Unit testing in SSIS Packages, Query verification in SSRS and Stored Procedures.
- Scheduled jobs to run the SSIS packages on daily basis using SQL Server Agent.
- Setting up alerting system by using performance counters for monitoring system performance.
- Used SQL Profiler to monitor the server performance, debug T-SQL and slow running queries.
- Managing of users including creation/alteration, grant of system/db. Roles and permission on various Database objects.
- Extensively used Joins and sub queries to simplify complex queries involving multiple tables.
- Extensively Developed SQL scripts for maintaining administration tasks.
- Responsible for automation of maintenance jobs, locks and indexes configurations.
- Administering SQL Server security, SQL Server automatic email notification.
- Managed SQL user logins, database user accounts, server roles, database roles and its permissions. Handle lock scenarios.
- Used Power BI Power Pivot to develop data analysis prototype and used Power View and Power Map to visualize reports Developed OLAP Cubes by using SQL Server

Environment: MS SQL Server 2016, Windows Server 2016, C#, SQL Server Integration Services (SSIS), SQL Reports using SQL Server Reporting Services (SSRS).