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**BI Engineer**

**PROFESSIONAL PROFILE:**

* Over 5 years of extensive experience in Database design, Data modeling, Development, Implementation, ETL, Reporting and Visualizations.
* Hands on experience on all phases of **Software Development Life Cycle (SDLC)** of Data warehousing, including requirement gathering from business users, analysis, design, creation of mapping documents, specification writing, development, testing, and implementation.
* Experience with **Education, Finance like Banking and Healthcare like Insurance, Claims, Enrollment.**
* Well versed in **Normalization/Demoralization techniques** for optimum performance in relational and dimensional database environments.
* Migrated Data from different data sources to Azure Data Lake and then to Azure Synapse using Azure Data Factory.
* Created Pipelines in ADF using Linked Services/Datasets/Pipeline/ to Extract, Transform and load data from different sources like Azure SQL, Blob storage, Azure SQL Data warehouse, write-back tool and backwards.
* Hands on experience in creating **indexed Views, Complex Stored Procedures, Functions, Triggers, CTE’s to** assist efficient **data manipulation** and **data consistency** and used **DDL, DML** commands for various **business applications.**
* Efficient in creating **SSIS** Packages. Created packages to extract data from flat files, Teradata, Oracle and DB2 and transform the data according to the business requirements and load (ETL) solutions for data warehousing using **SQL Server Integration Service (SSIS)** and Informatica.
* Experienced in performing Incremental Loads and Data cleaning in SSIS. Expert in handling errors, logging using Event Handlers using SSIS.
* Experience in enhancing and **deploying** the **SSIS Packages** from development server to production server**.**
* Experience in **Reporting Services, Power BI (Dashboard Reports), Crystal Reports, Tableau** using **MS SQL Server.**
* Employed various **Tableau** functionalities like Tableau Extracts, Parameters, Filters, Contexts, Data Source Filters, Actions, Functions, Trends, Hierarchies, Sets, Groups, **Data Blending** and Maps etc.
* Expertise in designing, supporting complex reports like **Drill-Down**, **Drill-Through**, **Parameterized, Matrix**, and **formatting Reports** using **SQL Server Reporting Services SSRS)** based on client requirement.
* Created **stored procedure** for generating reports using **SQL Server Reporting Services (SSRS).**
* **BI Integration** with **SharePoint** like **Power View, Power Pivot and Power Query, Excel Service**, and **Reporting service.**
* Excellent hands-on experience in creating **groups**, **hierarchies** and **measures, KPIs.**
* Optimistic, Flexible and versatile to adapt to any environment and abilities to develop creative solutions for challenging requirements. Ability to learn new technologies in a short span of time and deliver well under pressure.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Operating Systems | Windows, Windows NT, XP Unix, Linux |
| Databases | MS SQL Server 2018/2016,2014/2012 MS Excel/MSWord/MS Access/MYSQL |
| Database Tools | SQL Enterprise Manager, SQL Profiler, Power Shell, DTS Import/Export, SQL Client Configuration utility, MS OLAP Services, SSMS, SQL Server BIDS/SSDT (SQL Server 2012) |
| **Modeling Techniques/Tools** | Flow Charts, Sequence Diagrams, Activity Diagrams, Use case diagrams, Data Modeling, ER Diagrams, MS Visio, Rational Rose |
| ETL Tools | Experienced working with SSDT/BIDS-DTS, SQL Server Integration Services (SSIS), SQL Server Reporting (SSRS). |
| Reporting Tools | SQL Server Reporting Services (SSRS), Crystal Reports |
| Methodologies | Agile, Waterfall |
| Languages | C, C++, HTML, XML/XSLT/.Net/C# |

**CARRER SUMMARY:**

**Client: Western Alliance Bank Aug 2022- Present**

**Location: Phoenix, AZ**

**Role: BI Engineer**

**Responsibilities:**

* Participating in full **SDLC** including requirements gathering, Analysis, Design, Development, Testing, Deployment of reports and database applications and **End to End Documentation**.
* Worked extensively in writing and debugging **complex Stored Procedures, Triggers, Inner Joins**, Outer Joins, Views and User Defined Functions.
* Designed **SSIS** packages to load data from different sources Text files, Excel to staging and staging to Data warehouse.
* Applied different transformations, **Control**, **Lookups**, **SCD**, **Derived** **Column** to easily migrate SSIS package from one server to another. Implemented the concepts of **Incremental** **Data** **Load**, **Slowly Changing Dimensions** for updating and maintaining the history of the records.
* Scheduled the **ETL** Process using Jobs. Created Alerts for successful and unsuccessful completion of scheduled jobs in SQL Server Agent.
* Primarily involved in **Data Migration** using MS SQL Server, Azure Blob storage, Azure Data Factory and SSIS.
* Worked in Loading data into **Azure SQL Database** using Data Factory pipelines and Used data for Creating **Power** BI Dashboards.
* Creating complex **Ad-Hoc reports**, sub-reports, drill down reports using **SSRS** (SQL Server Reporting Services) and deploy the reports to production server and add subscriptions and Schedule the reports to generate PDF’s based on the requirements.
* Created **Power BI** visualizations in Power BI service and Shared with the Internal team and Users.
* Developing and Maintaining of Data Dashboards, Reports and Data Visualization tools and Products using SSRS, Power BI, Tableau, Visio and Excel.
* Created complex **Tableau** Dashboards in Tableau Desktop v20.x and published to internal team for data analysis and review.
* Migrated existing **Tableau** Visualizations to **Power BI** using Power BI Desktop and shared the reports with Internal Team.
* Ability to work independently and cooperatively as part of a team and work under severe time constraints and manage multiple deliverables.
* Possess excellent analytical and complex problem-solving skills. Ability to provide creative solutions for challenging requirements for Business.

**Environment: Microsoft SQL Server 2018/ 2016, Visual Studio 2017/2015, SSDT, T-SQL, PL/SQL, SharePoint 2010, Azure, Tableau Desktop, Power BI Desktop v2.50.x/v2.49.x, Power Map, Power Pivot, Power View, MS Office, Azure DevOps.**

**Client: Mississippi Department of Education Jan 2022 – July 2022**

**Location: Jackson, MS**

**Role: BI Developer**

* Actively participate in full **software life cycle development** including requirements gathering, documentation, analysis, design, development, testing and deployment of client specific reporting and database applications.
* Create various **database objects** including and not limited to tables, views, Stored procedures, functions and database triggers to meet the business requirements.
* Develop **new stored procedures** for existing validating and transforming existing data and apply optimization techniques to existing stored procedures and functions for performance improvement.
* Created **SSIS** packages with complicated transformations like Lookup, Derived Column, Condition Split, Multicast, Sort, Union All, Cache Transform, and Conditional Split, Fuzzy Lookups, Checksum, Conditional Splits and Event Handlers, Error Handlers etc.
* Extensive experience creating **SSIS** packages to manage **SQL** **server** **databases** and SQL server objects between instances of SQL server.
* Created a Hyperlink in **Tableau** to pass parameters to SSRS report by mapping the parameters based on the data from multiple data sources (SSAS cubes and SQL Database). Written MDX queries and generated the SSRS report with single click on Hyperlink from Tableau Dashboard.
* As a **Power BI** and **Tableau** Developer responsible for the design, development and production support of interactive data visualizations used across the company.
* Published **Tableau** reports to the Tableau Server running on AWS using Amazon Redshift as connector.
* Utilize **Tableau** visual analytics and best practices like Dashboard structure, view orientation, sizing and layout, data emphasis, highlighting, color, fonts, tooltips, for generating complex dashboards and reports.
* Created Complex Dashboards in **Tableau** **Desktop** V2020.x/2018.3/2018.2/2018.1/10.x that were published to internal team for review and further data analysis and perform customization using filters and actions.
* Combine visualizations into Interactive Dashboards and published them to **Tableau** server.
* Imported data from various sources such as SQL Server, Azure SQL DB, DB2, Teradata, SQL Server Analysis Services MS Excel in **Tableau**.
* Created complex Ad-Hoc Reports, Summary Reports, Sub Reports, and Drill-down Reports using **SSRS** (SQL Server Reporting services) and Provided Production Support for the **SSRS** reports.
* Scheduled reports for daily, weekly, monthly reports for executives, Business analyst and customer representatives for various categories and regions based on business needs using **SQL Server Reporting services (SSRS).**
* Deployed **SSRS Reports to Production Server**. Added Subscriptions to send Scheduled Reports in Excel, Word by emails to Business Users.
* Author design documents, work with source systems to analyze and obtain target system mappings, obtain required data transformations by performing reverse engineering on software logic of source systems to migrate data from multiple sources.

**Environment: Microsoft SQL Server 2016/ 2014, Visual Studio 2017/2015, SSDT, T-SQL, PL/SQL, SharePoint 2010, Azure, Tableau Desktop, Power BI Desktop v2.50.x/v2.49.x, Power Map, Power Pivot, Power View, MS Office.**

**Client: Cognizant Jan 2018- July 2021**

**Location: Hyderabad, India**

**Role: BI Developer**

**Responsibilities:**

* Analyzed business requirements and build logical data models that describe all the data and relationships between the data.
* Created **SSIS** packages for importing the Excel layouts into the database using SSIS.
* Used **BIDS** to design **SSIS** packages to transfer data between servers, load data into database, and archived data file from different **DBMS**. Scheduled the job to do this task periodically.
* Loaded data from ODS to data warehouse using SSIS packages.
* Used **Power BI** to design interactive reports and data visualization using Power BI Desktop.
* Developed **Power BI reports and dashboards** from multiple data sources (SQL, SSAS, CSV, Flat files, Azure SQL Database) using data blending.
* Explored data in a variety of ways and across multiple visualizations using **Power BI**. Strategic expertise in design of experiments, data collection, analysis and visualization.
* Expertise in designing, supporting complex reports like Drill-Down, Drill-Through, Parameterized, Matrix, and formatting Reports using **SQL Server Reporting Services (SSRS)** based on client requirement.
* Deployed and scheduled reports using **SSRS** to generate all daily, weekly, monthly and quarterly reports including current status.
* Wrote **new stored procedures** for new system and optimized old store procedures and functions on production server. Improved **data load performance by analyzing database design** and query plans.
* Modified and created **joins** to improve the database and execution speed.
* Optimized the database by creating **various clustered, non-clustered indexes and indexed views**.
* Expert in data visualization development using **Tableau** to create complex, intuitive and innovative dashboards using Financial data.
* Involved in performance tuning using **SQL Server Profiler** and **SQL server hints**.
* Created **SSIS** packages using **SSIS Designer** for exporting heterogeneous data from OLE DB Source and Excel spreadsheet to SQL Server 2012.
* Designed ETL packages dealing with different data sources (SQL Server, flat files, and XMLs, etc.) and loaded the data into target data sources by performing various kinds of transformations using SSIS.
* Involved in installation of **Tableau desktop** and **Tableau server** Application software.
* Created very complex Dashboards using **Tableau 10.x/9.x** using the Drill Down, Drill Across, actions for business steering committees.
* Developed scenarios for Unit, Integration testing to ensure that all the components work correctly when integrated.

**Environment: Microsoft SQL Server 2016/2014/ 2012, SSDT, SharePoint 2013/2010, Tableau V2018.2/2018.1/10.x, Windows Server, MS Office, Microsoft Visual Studio 2015, DB2, MS Office**

**EDUCATION:**

* Master’s in Information Technology from Northwest Missouri State University.
* Bachelor of Technology from J.N.T.U, India.