Nagendra
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Professional Summary:

Data professional with more than 10 years of experience delivering the analysis, design, data modelling, and development of dimensional data models, transactional databases, data warehouses and Business Intelligence solutions using Erwin and ER/Studio and Microsoft BI suite (SSAS, SSIS, SSRS and Power BI) for clients including the New York City Department of Education.

- Experience in developing **dimensional data models**, Entity Relationship Diagrams (ERD) and **modelling Transactional Databases** and **Data Warehouse** using tools **Erwin and ER/Studio.**
- Expert in **data modelling principles/methods i**ncluding creating **conceptual, logical and physical Data Models** for **OLTP** and **OLAP systems**.
- Experience in Business Requirements Gathering, setting up **ETL architecture** and managing ETL data load, testing and quality assurance, troubleshooting issues, **ETL/Query performance tuning** and routine production ETL process support.
- Expert in designing and developing **SQL Server databases** and database objects including **Stored Procedures**, Functions, Views and CTES.
- Extensive programming, installation, configuration, management, monitoring and troubleshooting experience in MS SQL Server and Business Intelligence in SQL Server Reporting Services (SSRS), **SQL Server Integration Services (SSIS), and SQL Server Analysis Services (SSAS).**
- Proficient in Normalization (1NF, 2NF and 3NF) and De-Normalization techniques for optimum performance in relational and dimensional database environments.
- Proficient writing Complex SQL queries to perform end-to-end ETL data validations and support Ad-Hoc business requests.
- Expert knowledge in **translating relational data models** into **Data Base Schemas** and translating logical models into physical models for database creation.

Databases & Tools	**SQL Server 2005/2008/2008R2/2012/2016, Oracle 10g/11g/12c,** SSMS 2008/2012/2104, **SSIS 2008/2012/2016, Oracle SQL** Developer, Azure SQL, MS Excel
BI Tools	BIDS 2008, PerformancePoint Server 2010, SSAS 2008/2012, Power BI, Team Foundation Server (TFS), Tableau Desktop 8.0
Modelling Tools	**Erwin 9.5/9.6, ER/Studio, Oracle SQL Developer Data Modeler**
Reporting Tools	SSRS 2008/2012, Report Builder, Report Designer, SAP BO Crystal Reports
Operating Systems	Windows Server 2003/2008/2008R2/2012
Languages/Scripting	Visual Basic.NET, C#.NET, **T-SQL**, MDX, DAX, **XML,** ASP.NET

Education/Certification:

- Bachelor of Engineering in Computer Science, Jawaharlal Nehru Technological University (JNTU), Hyderabad, India
- Microsoft Certified Professional (MCP)

Client: Proskauer Rose LLP, New York, NY	**Oct 2019 – Present**
Title: Sr. Data Modeler/SQL ETL Developer	

Responsibilities:
- Performed complex **Data Analysis** and **Data Profile** on source tables to identify Critical Data Elements.
- Developed **Conceptual, Logical & Physical Data Models** using **ER/Studio** for Forward/Reverse Engineered Databases.
- Designed the **data marts** using Ralph **Kimball Dimensional Data Mart modeling** methodology using **Erwin.**
- Created **source to target mappings** to bring the data from source to the warehouse.
- Designed a STAR schema for the **data marts** and identified **confirmed dimensions**.
- Performed **data profiling** for better understanding of cordiality (**one-to-one, one-to-many** & **many-to-many**) in **ER models.**
- Responsible for design, development, testing and support of Microsoft SQL Server Business Intelligence platform and reporting solutions.
- Designed **SSIS Packages** to extract, transfer, load (**ETL**) data into SQL Server from different operational data sources.
- Managed ETL data load, testing and **quality assurance**, **troubleshooting issues**, ETL/Query **performance tuning** and routine production ETL process support.
- Translated data structures within the enterprise and establish appropriate data models for analysis, dimensions and tabular model OLAP cubes.
- Developed cross validation rules to ensure **data accuracy** between source and destination.
- Created and maintained SQL agent Jobs, Alerts, Database Mail and **Scheduled SSIS Packages**.
- Transformed **Logical Data Model** to **Physical Data Model** ensuring the Primary Key and Foreign key relationships, **Consistency of definitions** of Data Attributes and Primary Index considerations.
- Designed ER diagrams (**Physical and Logical**) and mapping the data into database objects and identified the Facts and Dimensions from the business requirements.
- Created Data Warehouse schema to deploy **facts** and **dimensions** tables and defined referenced relationships with the measure groups.
- Designed current database by adding **tables**, **relationships**, **creating stored procedures**, **views** and **functions**.
- Created various **Power BI Reports** that includes Charts, Filters, Scorecards, Drilldown and Drill-Through, Cascade, Parameterized reports.
- Scheduled the packages to keep extracting the data from **OLTP** at specific time intervals.

Environment:
Erwin 9.7, Microsoft SQL Server Integration Services, Analysis services and Reporting Services, PowerBI Desktop, Microsoft Power BI On-Prem Premium Server, Microsoft Windows Server 2016, Microsoft SQL Server 2017.

Client: NYC Department of Housing Preservation and Development (HPD), through UNIVERSAL Technologies, New York, NY	**Aug 2018 – Oct 2019**
Title: Data Modeler/SQL Developer	

Responsibilities:
- Designed and developed data models for Basic MWBE, HPD Works NYC.ID, OPT, Construction monitoring, Completions, and conversions.
- Identified the business entity (Subject area) for Basic MWBE, HPD Works NYC.ID, OPT, Construction monitoring, Completions, and conversions.
- **Created data models** including **physical** and **logical data models**.
- Responsible for creating **SQL scripts and procedures** to enable interaction with front-end applications for data retrieval and data migration.
- Followed Agile Methodology for project development.
- Debugged and optimized **SQL queries.**
- Performed **data architecting, data mining, large-scale data modeling**, and business requirements gathering and analysis.
- Implemented enterprise data management processes, procedures, and decision support.

Client: NYC Department of Education, Long Island City, NY	Jul 2016 – Aug 2018
Title: Sr. Data Modeler / SQL ETL Developer	

Project: Vendor Metric System

Assemble Special Education Vendors information from various sources into a Data Mart that facilitates a common operational picture of vendor activity. The vendor Data Mart covers the key operational entities of an organization like school bus-breakdown and delays, accidents, Call Recording system and Bus Inspections etc. Build a new Business Intelligence platform to get faster answers to business questions, get key business metrics reports on-demand basis for users and get insight into customer behavior.

Responsibilities

- Performed **Data Analysis** and Data Profile on source tables to identify Critical Data Elements.
- Validated source data to identify data anomalies, data redundancy and to understand data quality.
- Developed **Conceptual, Logical and Physical Data Models** using **Erwin** for Forward/Reverse Engineered Databases.
- **Designed the data marts** using **Ralph Kimball Dimensional Data Mart modeling methodology.**
- Created source to target mappings to bring the data from source to the warehouse.
- Designed a **STAR schema** for the **data marts** and to identify confirmed dimensions.
- Performed data profiling for better understanding of cordiality (one-to-one, one-to-many and many-to-many) in ER models.
- Defined the appropriate security models for accessing data models in Model Mart and set-up versioning as appropriate.
- **Responsible for design, development, testing** and support of **Microsoft SQL Server Business Intelligence platform** and **reporting solutions.**
- **Designed SSIS Packages** to extract, transfer, load (ETL) data into SQL Server from different operational data sources.
- Managed ETL data load, testing and quality assurance, troubleshooting issues, **ETL/Query performance tuning** and routine production ETL process support.
- Translated data structures within the enterprise and established appropriate data models for analysis, dimensions and tabular model **OLAP cubes**.
- Developed cross validation rules to ensure data accuracy between source and destination.
- **Created and maintained SQL agent Jobs, Alerts, Database Mail and scheduled SSIS Packages.**
- Transformed **Logical Data Model** to **Physical Data Model** ensuring the Primary Key and Foreign key relationships, Consistency of definitions of Data Attributes and Primary Index considerations.
- Designed ER diagrams (Physical and Logical), mapped the data into database objects, and identified the Facts and Dimensions from the business requirements.
- **Created Data Warehouse schema** to deploy facts and dimensions tables and defined referenced relationships with the measure groups.
- Designed current database by adding tables and relationships and created stored procedures, views, and functions.
- Scheduled packages to keep extracted data from OLTP at specific time intervals.

Environment:

Erwin 9.6, SSIS 2016, SSAS, SSRS, Microsoft Power BI, **Oracle SQL Developer, Oracle SQL Developer Data Modeler,** Windows Server 2012, **SQL Server 2016**

Client: Xerox Corporation, Webster, NY	May 2014 – Jun 2016
Title: Sr. Data Modeler/ SQL Data Warehouse Developer	

Project #1:

Xerox Managed Print Services (MPS) Suite is made up of over 30 software applications, with components both in cloud and installed onsite in customer environments. The Suite enables the global Xerox MPS business handling millions of transactions per day for thousands of customers worldwide. Create Managed Print Services (MPS) Dashboards to give the better visibility for decision makers at all levels the ability to aggregate and drill in to key contract metrics that drive business performance.

Responsibilities

- Designed Physical and Logical Models, mapped the data into database objects, and identified the Facts and Dimensions from the business requirements.
- **Designed SSIS Packages** to extract, transfer, load (ETL) existing data into SQL Server from different environments for the **SSAS cubes.**

- Designed **Dimensional model** by analyzing all the requirements from the clients for the different source systems.
- **Designed Star/Snow-Flake schema** for the data marts and identified the confirmed dimensions.
- Created Source-to-Target mapping document for ETL loads.
- Responsible for Data Cleansing, Data Quality, Data Profiling and Data Validation in ETL.
- Extracted data from various sources including SQL Server, Oracle, .CSV, XML, Excel and .dat file from Client servers and through FTP.
- Set up the Change Data Capture (CDC) in source systems to process the delta loads into **data marts.**
- Created and reviewed functional requirement specifications and supported documents for business systems.
- **Designed SSAS Cubes** and built attribute relationships for optimal query performance of Hierarchies and Fact Dimensions.
- **Created XML source feed files in Data Mart** by writing **SQL stored procedures** with XML data types**.**
- Identified gaps between different modules of the system and addressed the gaps with the functional personnel.

Environment:
SSIS/SSAS/SSRS 2012, PerformancePoint Server, Team Foundation Server TFS), Tableau Desktop 8.0, Windows Server 2012, **SQL Server 2012, Oracle SQL Developer, Erwin 9.5, Oracle, XML,** MS Excel

Project #2:
The Global Supply Chain (GSC) organization of Xerox manages the multiple sources of equipment and piece part inventory data. GSC BI application is to mitigate the complexity by providing a single source instead of multiple sources, cleansed one stop integrated data warehouse that is flexible enough to accommodate new changes and scalable enough to efficiently cater to the growing user community.

Responsibilities:
- Gathered requirements from business users for the different source systems and estimated the development effort.
- Responsible for **ETL Design** and designing the **Dimensional model** after analyzing all systems.
- **Developed Conceptual, Logical** and **Physical Data Models** using **Erwin** for **data warehouse schema design.**
- Extracted data from various sources including SQL Server, Oracle, .CSV, Excel and Text file from Client servers and through FTP.
- **Designed database** by adding tables, relationships, and creating **stored procedures** and views.
- **Created** and **deployed cubes** using **Star** and **Snowflake schema.**
- Performed and created dimensions and measures and generated KPI and MDX queries.
- Created source to target mappings to bring the data from source to the warehouse.
- Created **SSIS Packages** for performing **ETL operations** from the external source.
- Generated canned Reports for Business users using **SSRS.**
- Conducted **performance tuning** of **SQL queries** and **stored procedures.**
- **Performed SQL Server database Backup/Recovery and OLAP cube replication.**
- Collaborated with business to enhance functionality of Business Intelligence platform to implement client requirements.

Environment:
SQL Server 2012, SSRS/SSIS/SSAS 2012, PerformancePoint Server 2010, Team Foundation Server (TFS), Windows Server 2008R2, **Oracle SQL Developer, Erwin 9.5, Oracle,** MS Excel

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Client: Wells Fargo Capital Finance, New York, NY	Jan 2010 – May 2014
Tile: SQL ETL Developer / BI Developer	

Project #1:
The Nova Commercial Services / Factoring system product of William Stucky's & Associates, which is named as CHOICE, is the receivable management system of Wells Fargo. Wells Fargo Capital Finance provides business-factoring services for clients in US and Europe.

Responsibilities
- Implemented and delivered MSBI platform solutions to develop and deploy ETL, analytical, and reporting on SQL Server using **SSAS, SSIS, and SSRS**.

- Used transformations including Look Up, Derive Column, Conditional Split, Aggregate, Row Count, and sort and executed SQL Task to load data into **Data Warehouse.**
- Provided Logging and Error handling using Event Handler and Custom Logging for **SSIS Packages.**
- Followed SDLC life cycle for Design, Development and Staging phases of the projects with support of Data-Flow and **Process Models.**
- Analyzed **OLAP process** for changing and maintaining the Warehouse, Optimizing Dimensions, Hierarchies and adding the Aggregations to the Cube.
- Created **Data Warehouse schema** to deploy fact and dimension table and defined Referenced relationships with the measure groups and fact tables.
- Analyzed existing **ETL** and relational database framework and **scheduled Packages** using SQL Server Agent Jobs.
- Performed preventive maintenance activities including causal analysis, restructuring program codes, data problems resolution and performance tuning.
- Stored all source code in Team Foundation Server (TFS) and updated development status in the TFS.

Environment:
SQL Server 2008, **SSIS/SSAS/SSRS/SSMS 2008**, PerformancePoint Server, Team Foundation Server (TFS), Windows Server 2003/2008R2, ER/Studio Data Architect

Project #2:
LUCAS (Loan Underwriting and Collateral Analysis System) is used by Capital Finance to store, track, maintain and administer asset-based loans.

Responsibilities
- Created ad-hoc reports for daily needs regarding Client and Customer financial standings.
- Creating various types of reports including drill down and drill through reports, Matrix reports, Sub reports and Charts **using SSRS** on Relational databases.
- Designed different project solutions to handle wide array of reporting needs from different aspects.
- Performed Preventive maintenance activities including causal analysis, restructuring program codes, data problems resolution and performance tuning.
- Coordinated with a Project Manager and/or a Business Analysts to resolve issues and collect specifications for developing new reports.

Environment:
SQL Server 2008, SSRS/SSMS 2008, **SQL Server** BID Studio 2008, SAP BO Crystal Reports, Windows Server 2003

Client: KPMG, Montvale, NJ	**Jun 2007 – Dec 2009**
Title: Application Developer	

Environment:
ASP.NET, C#.NET, **T-SQL, SQL Server 2005,** Windows Server 2003