**Naveen Thumu**

**Sr. Data modeler**

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**SUMMARY:**

* **7+** years of experience in **data modeling , data analysis, design of OLAP and OLTP systems**, data warehousing implementations for **financial, healthcare, insurance and banking industries .**
* Proficient in Software Development Life Cycle (**SDLC**), Project Management methodologies and **Microsoft SQL Server** database management.
* Experienced in generating and documenting **Metadata** while designing OLTP and OLAP systems environment.
* Experience in developing **conceptual, logical and physical data models** as per enterprise standards.
* Well versed in **system analysis**, **Relational and Dimensional Modeling, Database** design and implementing RDBMS specific features.
* Experience in designing **star schema** (identification of facts, measures and dimensions), **Snowflake schema** for Data Warehouse, ODS architecture by using tools like **Erwin data modeler, E-R Studio.**
* Well versed in **Normalization (1NF, 2NF and 3NF)** and **De normalization** techniques for optimum performance in relational and dimensional database environments.
* Implemented slowly changing dimension **(SCD)** type I and type II in dimensional modeling as per requirements
* Efficient in process modeling using **Erwin** in both **forward and reverse** engineering cases.
* A good understanding of Extract, Transform and Load (**ETL**) data from spreadsheets, database tables and other sources using Microsoft Data Transformation Service (**DTS**) and **Informatica**.
* Good understanding on **data governance** and **master data management.**
* Experience working with designing a canonical model and workingon **Ralph Kimball** and **Bill Inmon** approaches.
* Experience in using and maintaining **enterprise metadata repository(EMR).**
* Experienced in Data loading using **PL/SQL, SQL Server Integration Services packages (SSIS), Oracle Data Integrator (ODI)**and developed dashboard reports using **SQL Server reporting services (SSRS).**
* Experience in using **Teradata ETL tools** and utilizes such as **BTEQ, MLOAD, FASTLOAD, TPT, FASTEXPORT**..
* Proficient in oracle tools and utilities such as **TOAD, SQL\*PLUS and SQL developer.**
* Good working knowledge of **Meta-data** management in consolidating metadata from disparate tools and sources including Data warehouse, ETL, Relational Databases and third-party metadata into a single repository to get information on data usage and end-to-end change impact analysis.

**TECHNICAL SKILLS:**

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| --- | --- |
| Data Modeling Tools | Erwin r9, Erwin r8, ER Studio and Oracle Designer |
| OLAP Tools | Microsoft Analysis Services, BusinessObjects, OBIEE and Crystal Reports 9 |
| ETL Tools | Microsoft DTS/SSIS, SSRS, ODI 11.1.6 and Informatica 7.1.3, Data Stage 11 |
| Programming Languages | SQL, T-SQL,HTML, XML, VB.NET |
| Database Tools | Microsoft SQL Server 2000/2008, Teradata, Oracle 10g/11g, MS Access, JDE 9.0 |
| Packages | Microsoft Office 2010, Microsoft Project 2010, SAP and Microsoft Visio, Share point Portal Server 2003/2007. |
| Operating Systems | Linux, UNIX , Windows |

**Professional Experience:**

**Martin Marietta, Raleigh, NC** Jan’ 15 – Present

**Sr. Data Modeler**

**ROLES AND RESPONSIBILITIES:**

* Involved in gathering requirements from Business System Specialist and also involved in discussions with BSS for dashboard design.
* Involved in Analysis, profiling and cleansing of source data and understanding the business process.
* Built ODS integrating the source systems for ad-hoc reporting.
* Used **Erwin** for reverse engineering to connect to existing database and ODS to create graphical representation in the form of Entity Relationships and elicit more information.
* Built **conceptual, logical and physical models** using **Erwin.**
* Used Normalization techniques to normalize the data in ODS.
* **Forward Engineered** the physical data model and generated DDL script using Forward Engineering option in **Erwin.**
* Identified facts and dimensions based on KPI and also identified the source tables.
* Built **Conceptual, Logical & Physical start schema** using Erwin.
* Created STTM documentation for data mart integrating different source systems.
* Involved in documentation of **Data Mapping and ETL specifications** for development from source to target.
* Also implemented the change Data Capture (CDC) while integrating the enterprise data sources.
* Created Indexes and Partitions to optimize the performance.
* Assisting **ETL Team, BI team and end users** to understand the data model.
* Facilitated in developing testing procedures, test cases and User Acceptance Testing (UAT).

**ENVIRONMENT: Erwin 9.5, Oracle 12c, JDE 9.0 ,IBM DataStage 11, Cognos Framework Manager , SQL Developer, MS Office, Crystal Reports.**

**PRAXAIR, Inc., Danbury, CT** Sept’ 14 – Jan’15

**Sr. Data Modeler**

**ROLES AND RESPONSIBILITIES:**

* Involved in design of **OLAP systems** using **Ralph Kimball Methodology.**
* Reversed Engineered the existing database and based on **Functional Design Specification (FDS)** updated and optimized the existing star schemas to satisfy the reporting requirements.
* Identified **Facts and Dimensions** to satisfy the new reporting requirements based on **FDS** and designed Data Marts with conformed Dimensions.
* Had discussions and meetings with Solution Architect to design appropriate data mart at the lowest possible grain for each dimensions involved in the star schema.
* Built **conceptual, logical and physical models** using **Erwin**and developed **star** and **snow flake** schemas Dimensional model to develop the data warehouse.
* Generated reports like physical dictionary using crystal reports.
* Identified and tracked the **slowly changing dimensions** (**SCD I and II)** and determined the hierarchies in Time and Branch Dimensions.
* Review the data model with functional team involving Business Analyst and technical team involving solution Architect.
* **Forward Engineered** the physical data model and generated DDL script using Forward Engineering option in **Erwin.**
* Involved in documentation of **Data Mapping and ETL specifications** for Data warehouse.
* Involved in designing and developing **ETLProcess flow** and implemented it using **ODI package** during Development phase.
* **Reverse Engineered** source and Target data stores using **Reverse Engineering Knowledge module** in **ODI**.
* **Debug** the mappings to resolve code issues.
* Implemented interfaces for loading source data in to staging area and staging area in to dimensions and fact table of reporting data mart.
* Involved in Indexing and Partitioning of Database.
* Interacted with QA team in their testing of Data warehouse.
* Created reports using OBIEE.
* Facilitated in developing testing procedures, test cases and User Acceptance Testing (UAT).

**ENVIRONMENT:ERwin 9.5, Oracle 11g, ODI 11.1.6, OBIEE, SQL Server 2008, SQL Developer, MS Office, Crystal Reports.**

**ACE Insurance, Basking Ridge, NJ** Sept’ 13 – August’ 14

**Sr. Data Modeler/Analyst**

**ROLES AND RESPONSIBILITIES:**

* Developed a **Conceptual model** using Erwin based on requirements analysis.
* Produced functional decomposition diagrams and defined logical data model.
* Designed a logical and physical data model using database tool **Erwin r8.0**.
* Used forward engineering to create DDL from Physical Data Model, based on the requirements from the Logical Data Model.
* Conducted team meetings and Joint Application Design (**JAD**) session.
* Involved in implementing data warehouse using **Ralph Kimball methodology** along with architects and data governance teams and consulted the team on the design issues and implementations.
* Conducting the meetings with business users to gather data warehouse requirements.
* Interacted with the Business Analyst, QA team in their testing and DBA’s.
* Used **Erwin** for reverse engineering to connect to existing database and ODS to create graphical representation in the form of Entity Relationships and elicit more information.
* Designed multiple facts and dimensions and implemented data marts.
* Identified and tracked the **slowly changing dimensions**(**SCD I and II)** and determined the hierarchies in dimensions.
* Generated comprehensive analytical reports by running **SQL queries** against current databases to conduct data analysis.
* Involved in **Data Mapping** activities for the data warehouse.
* Developed monthly summary and downstream data marts from enterprise wide databases in accordance with reporting requirements with dimensions like time, customers, services and accounts.
* Developed **Star** and **Snowflake** schemas based dimensional model to develop the data warehouse.
* Facilitated in developing testing procedures, test cases and User Acceptance Testing (UAT).
* Handled performance requirements for databases in **OLTP** and **OLAP** models.
* Reverse engineered from **Toad** database to **Erwin** and generated SQL script through **forwardengineer** in Erwin.

**Environment: ERWIN 8.x, oracle 11g,Teradata 13, SQL server 2008,SSIS, SSRS, MS Excel, Toad for MySQL 6.3, Informatica (IDQ)**

**eRecycling Corp., Irving, Texas** April ‘12 – Sep’ 13

**Sr. Data Modeler**

**ROLES AND RESPONSIBILITIES:**

* Identified **entities** and **attributes** and built **conceptual, logical** and **physical models using Erwin**.
* Data modeler performing **business area analysis** and **logical and physical data modeling** using Erwin for data warehouse/data mart applications as well as operational applications enhancements and new development. Data warehouse/data marts design was implemented using **Ralph Kimball methodology.**
* Reverse engineered the reports and identified the data elements, **dimensions, facts** and measures required for new enhancements of the reports.
* Design discussions and meetings to come out with the appropriate data mart at the **lowest level of grain for each of the dimensions** involved.
* Worked on **data profiling, data quality (IDQ)**, assessing the risk involved in integrating data for new applications.
* Involved in discussions with team which deals with six sigma to understand the customer need, data and data analysis.
* Assess whether **metadata** accurately describes the actual values in the source database.
* Worked on **data governance** for improving data quality.
* Designed a **star schema** for the detailed data marts and plan data marts involving confirmed dimensions
* Created and maintained the **data model repository** as per company standards.
* Creating and ensuring the feasibility of **the logical and physical design models** using Erwin.
* Generated ready to implement **DDL for oracle DBMS implementation by the DBA group**.
* Created reports using **SQL Server reporting services (SSRS), business objects, and crystal reports.**
* Worked on various databases like **Oracle, DB2 and Teradata.**
* Interacted with DBA for **improving performance of queries**.
* Involved in **indexing, partitioning** of the database.
* Worked extensively on oracle analytical functions like **ROW\_NUMBER, LEAD, LAG, RANK, DENSE\_RANK**
* Populated SharePoint site with Metadata for Various Data Structures, tables, Columns and their Constraints using Structured Query Language.
* Generated ad-hoc queries using **SQL joins**, etc.
* Worked on **PL/SQL collections**, **index by table, arrays, bulk collect, FOR ALL,** etc.
* Performed updates and enhancements to the already existing data models as required by using **ERWIN/CA**
* **PL/SQL** was extensively utilized for coding and writing complex database triggers, stored procedures and packages.

**ENVIRONMENT:ERWIN, Oracle 10g, Crystal Reports, Toad, Erwin, Windows OS, DB2, Teradata 13, SSRS, Business objects, Informatica (IDQ)**

**Jefferies, NYC, NY** August 10 –March 12

**Data Modeler/Analyst**

The objective of this project was to design, develop and maintain the database. The operational data from multiple sources was loaded into the single repository data warehouse.

**ROLES AND RESPONSIBILITIES:**

* Interacted with **business analysts** to get **functional requirements**.
* Worked with ERwin model mart.
* [Creating databases for **OLAP Metadata Catalog tables**](http://www-306.ibm.com/software/data/db2/db2olap/docs/v82docs/esb_install/sii-i5oc-35648.htm#sii-i5oc-39348) using forward engineering of models in ERwin.
* Involved in designing data warehouse/ Data Marts using **Ralph Kimball metoddology**
* Interact with end users and find out the **reporting** needs.
* Built the **conceptual model** as per the requirements.
* Create **standard abbreviation document** for logical, physical and dimensional data models.
* Creating **logical, physical** and **dimensional data models using Erwin** and documenting it.
* Generating **reports** from the data models
* Review the data model with **functional and technical team**
* **Assisting developers, ETL, BI team and end users** to understand the data model.
* Worked on **master data management, data governance** and **data integration** for improving the **data quality using IDQ.**
* Exhaustively collected business and technical **Metadata** and maintained naming standards.
* Maintain **change log** for each data model.
* Normalized tables up to **3NF.**
* Create **SQL code** from data model **and co-ordinate with DBA’s**.
* Check to see whether the data models and databases are in sync
* Generated **PL/SQL** code and created **procedures, functions, views**, etc.
* Adding data objects **like indexes, partitions** in oracle databases for performance and then generating the reports.

**ENVIRONMENT:Oracle 10g, Toad, ERWIN, Crystal reports 9, Windows XP, DB2, Teradata.**

**Catholic Health Initiatives, Denver, CO**Dec’ 09 – July’ 10

**Data Modeler/Analyst**

Involved in the design and development of the Data Warehouse. The company data came from different operational sources and was then loaded into the Claims Data Warehouse using InformaticaPower center.   
**ROLES AND RESPONSIBILITIES:**

* Worked with the Business Analyst and DBA for requirements gathering, business analysis, and testingand project coordination.
* Gathered requirements and created use case diagrams as part of requirements analysis.
* Analyzed and evaluated existing system for assessing how it supported functions
* Implemented Referential Integrity using **primary key** and **foreign key relationships.**
* Involved in **Dimensional modeling** of the Data.
* Identified **the Facts and Dimensions**.
* Identified and tracked **the slowly changing dimensions** and determined the hierarchies in dimensions.
* Produced **functional decompositionand logical models** into an **enterprise data model**.
* Employed process and data analysis to model a Customer Information Business System.
* Consulted with client management and staff to identify and document business needs and objectives, current operational procedures for creating the logical data model.
* Created physical data models using forward engineering.
* Modeled a database to store customer demographic and other data.
* Involved in the creation, maintenance of **Data Warehouse** and repositories containing **Metadata**.
* Developed **Logical data model** using **ERwin**.
* Used Erwin for relational database and dimensional data warehouse designs.
* Involved in Data Mapping.
* Conducted logical data model walkthroughs and validation.
* Conducted team meetings and **JAD** sessions.
* Helped the DBA in creating the **physical database design** and QA team in their testing.

**Environment:Oracle 10g, Toad, ERWIN, Crystal reports 9, Windows XP,Informatica Power Center,Teradata, DB2.**

**TTK Healthcare, India** Jan’ 08 – Sept’ 09

**Data Analyst**

Project was involved in the credit card division of the bank. Customer-centric database was built to analyze transactions across finance, marketing, risk, collections and consumer relations were developed.

**ROLES AND RESPONSIBILITIES:**

* Create **logical and physical models** using best practices to ensure high quality and **reduced redundancy**
* **Optimize** and **update logical** and **physical data models** to support new and existing data models
* Recommend opportunities for reuse of data models in new environments
* Perform **reverse engineering** of physical data models from databases and **SQL scripts**.
* Validate **business data objects** for accuracy and completeness
* Examine new **application design** and recommend corrections if required.
* Write **SQL code** and **debug** them, **unit testing** was performed.
* Extensively used **star schema methodologies** in building and designing the **logical data models into dimensional model**.
* Written **stored procedures** and **triggers** extensively and working very closely with **developers, business analysts and end users** to generate various audit reports and **troubleshoot** their query problems.
* Provided maintenance and support to customized reports developed in **crystal reports.**
* Gathered statistics on **large reports and redesigned indexes.**

**ENVIRONMENT:** Oracle 10g, DB2, Erwin, Teradata, SQL Server, SQL, Pl/SQL, crystal reports, windows XP, SQL \*PLUS.

**Electro India Ltd., India** Mar’ 07 – Nov’07

**Data Modeler**

Developed a dealer management system for management of inventory products, orders, sales and goods receiving and other inventory management and control for electricity equipment.

**ROLES AND RESPONSIBILITIES:**

* Created **PL/SQL code** for **functions, stored procedures**
* Created **SQL unit test scripts** and test database for **testing**
* Gather business requirements from business analysts and understand the **used cases**.
* Generation of **entity diagrams** and **relationship diagrams** and modeling **cascade delete/update/insert** for maintaining **referential integrity**.
* Worked of **application enhancement** projects.
* Interacted with DBA regarding **performance tuning, indexing and partitioning of the database.**
* Wrote queries using **Toad** for oracle and analyzed **ER diagrams** using **ER studio.**

**ENVIRONMENT:** Oracle 9i, ERWIN 5.0, ER Studio, SQL PLUS, Toad, SQL, PL/SQL, Windows XP.