# NAVYA VUPPERA

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**Summary**

* Senior Data Modeler and Data Analyst with 8+ years of IT professional experience in Data Modeling, designing and data analysis with Conceptual, Logical and Physical modeling for Online Transaction Processing and Online Analytical Processing (OLTP & OLAP) systems.
* Extensive experience in the Data Warehousing implementations for Financial, Insurance and Automobile Industries.
* Experience in System Analysis, Application Design, Dimensional Data Modeling, Implementation and Testing of Enterprise Data Warehousing and Enterprise Database.
* Experience in Data Modeling using Erwin 2020R1, 2019R1, 2018R1, 9.x,8.0/7.2.9/4.5, ER/Studio 7.1.1/7.5, Oracle Designer 2000 and SQL Designer.
* Extensive Experience in Relational Modeling, Dimensional Modeling, Data Marts, Conceptual, Logical Modeling, Physical Modeling, Star Schema, Snowflakes Schema, ERD (IDEF1X and IE notation) ER Diagrams, Granularity, Cardinality, Forward Engineering, Report Generation, CompleteCompare and Database Reverse engineering.
* Designed databases involving complex views, triggers in Oracle 11g/10g/9i/8i/8, Sybase, Teradata, Microsoft Access, DB2, and SQL Server 2005/2000.
* Designed ER diagrams, logical model (relationship, cardinality, attributes, and, candidate keys) and physical database (capacity planning, object creation and aggregation strategies).
* Worked closely with ETL teams such as Informatica to extract data from Source system to target systems and prepared mapping spreadsheets for (ETL) team with source to target mapping, physical naming standards, datatypes, volumetric, domain definitions, and corporate meta-data definitions and created mappings, Data Reports.
* Worked extensively on XML data and XSD schema designing.
* Has a good experience on Consolidating data from different data source and performing Data Analysis, mapping source and target systems for data migration efforts and resolving issues relating to data migration.
* Expertise in Normalization techniques for data consistency and Flexible Database design.
* Expertise in Creating UNIX Shell scripts.
* Designed the PL/SQL procedures for getting the data from all systems to Data Warehousing system. The data was standardized to store various Business Units in tables.
* Good Knowledge in designing the data warehouse using Ralph Kimball's and Bill Inmon techniques.
* Expertise in creating Schema objects like Indexes, Views, and Sequences.
* Identified Slowly Changing Dimensions (SCD), Role Playing Dimensions and Hierarchies in dimensions.
* Involved in implementing the Referential Integrity by using Primary and Foreign key relationships
* A proven ability to deliver highly comprehensive Master Data Management (MDM) designs to consolidate data across a wide range of business entities.
* Experience in handling business and technical issues & communicating with both business and technical users.
* Very good experience and knowledge on Amazon Web Services: AWS Redshift, AWS S3, AWS Dynamo DB, AWS Aurora.
* Created, documented and maintained logical and physical database models in compliance with enterprise standards and maintained corporate metadata definitions for enterprise data stores within a metadata repository.
* Established and maintained comprehensive data model documentation including detailed descriptions of business entities, attributes, and data relationships.
* Involved in the preparation of Detailed Design Documentation.
* Excellent analytical and communication skills with clear understanding of business process flow, SDLC and facilitated JAD sessions.
* Good interpersonal and human relation skills to interact with clients and co-workers

# Skillset

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| Modeling and Analysis Tools | Erwin 2020R1, 2019R1, 2018R1,7.x/8.x/9.x, ER/Studio, MS Visio, SAP  Power Designer, Alteryx, Informatica Data Quality(IDQ), NoSQL Workbench. |
| ETL Tools | Informatica 9.x/8.x/7.x, IBM DataStage, Oracle Data Integrator, SSIS |
| AWS Tools | EC2, S3 Bucket, RDS, Aurora, Amazon Redshift |
| Databases | SQL Server 2008/12/14, Oracle 10g/11g/12c, Sybase, MySQL, IBM DB2,  Teradata, Netezza, IBM DB2 9.8/9.7, Dynamo DB, Hadoop, AWS. |
| BI Tools | Power BI, Tableau, Cognos 8, MicroStrategy, Business Objects, Qlikview |
| Languages | SQL, PL/SQL, XML, UNIX Shell Scripting, Oracle, Teradata. |
| Project Execution Methodologies | Ralph Kimball and Bill INMON DATA warehousing methodology, Rational Unified Process (RUP), Agile |

**Education**

## Masters in Computer Science GPA 3.86/4.0

**Texas A&M University, Kingsville**

**Bachelor’s in Information Technology GPA 3.8/4.0**

Jawaharlal Nehru Technological University (JNTU), Hyderabad, India

**Experience**

**ERIE Insurance Group, Erie, PA Oct’19 – Present**

**Sr Data Modeler/Data Analyst**

Erie insurance picked up Worker’s compensation after business owner policy, for Legacy Modernization exercise. The insurance carrier is looking forward to a single stop solution for Quoting, Issuance and Policy admin. The new approach deals with the current pain points of legacy and discreet systems for each of the functions individually.

**Roles & Responsibilities:**

* Collaborate with Information Architecture and Business Analysis teams in formulation of requirements for data across all product lines
* Create conceptual model with all the business entities to assist business users in gathering right data or information.
* Create logical model using ERWIN by adding the attributes to each entity and establishing relationship between the entities.
* Work with Data governance, Data quality, data lineage, Data architect to design various models and processes.
* Used ad hoc queries for querying and analyzing the data, participated in performing data profiling, data analyzing, data validation and data mining and data quality rules.
* Extensively involved in various data modeling tasks including forward engineering, reverse engineering, complete compare, Creating/Altering DDL scripts, creating subject areas, data dictionary, publishing model to PDF and HTML format, generating various data modeling reports etc.
* Import and publish models in Erwin Web Portal and schedule jobs on models.
* Create various ETL documents such as ETL Mapping documents, Data Mapping documents, ETL test scripts.
* Work with the Data Architects to create the draft models that contain necessary properties to meet the requirements of the model and translate them into a set of JSON entity schemas used in the API development process.
* Construct and analyze P&L statements; including decamping and finding solutions that improve results (i.e. Policy Growth, Revenue Growth, Profitability, Financial Ratios, Profit Margin and Customer Retention).
* Worked and extracted data from various database sources like Oracle, SQL Server, DB2, and Teradata and prepared data ingestion documents.
* Built data visualizations against various data sources like Flat files (Excel, Access) and Relational databases (Oracle, Ms-Sql) using Tableau.
* Created DDL scripts from physical models for implementing Data Modeling changes. Published Data model to acrobat PDF files, extensively created reports in HTML, RTF format depending upon the requirement, Published Data model in model mart, created naming convention files, co-ordinated with DBAs to apply the data model changes.
* Implemented Normalization and De-Normalization Techniques to build the tables, indexes, views and maintained and implemented stored procedures as per requirements.
* Worked on writing system specifications, translating user requirements to technical specifications, created/maintained/modified data base design document with detailed description of logical entities and physical table.

***Environment: Erwin 2020R1/2019R1, PostgreSQL 11.5, Amazon Aurora, Attunity, Alteryx, Informatica Power Center 9.6, Informatica Data Quality(IDQ), Toad, JSON, SAP BW, IBM DB2, AQT, Oracle 11G, Teradata, Jira, OBIEE, Tableau Desktop 8.2, Tableau server, SQL Server.***

## Sr Data Modeler/Analyst

**Tenneco Inc, Lake Forest, IL Jan’19 – Oct’19**

Tenneco is one of the world’s leading designers, manufacturers and marketers of Aftermarket, Ride Performance, Clean Air and Powertrain products and technology solutions for diversified markets, including light vehicle, commercial truck, off-highway, industrial and the aftermarket. The goal of this project was to build a central repository of historic data warehouse that could support various reporting and information needs. Data was spread out in multiple and diverse sources in databases located in different regions. The requirement demanded an integrated, unified data pool that was truly subject- oriented, time-variant and nonvolatile.

## Roles & Responsibilities:

* Analyzed database requirements in detail with the project stakeholders by conducting Joint Requirements Development sessions.
* Facilitated development, testing and maintenance of quality guidelines and procedures along with necessary documentation.
* Worked on creating conceptual data models and data flows.
* Generated ad-hoc SQL queries using joins, database connections and transformation rules to fetch data from legacy Sybase systems.
* Developed standard and re-usable mappings and mapplets using various transformations like expression, aggregator, joiner, source qualifier, router, lookup Connected/Unconnected, and filter.
* Implemented the standard naming conventions for the fact and dimension entities and attributes of logical and physical model.
* Developed the required data warehouse model using Star schema for the generalized model
* Worked on snow-flaking the Dimensions to remove redundancy.
* Developed complex SQL codes such as Stored Procedures, functions, triggers, Indexes, and views for the business application.
* Used Model Mart of Erwin for effective model management of sharing, dividing and reusing model information and design for productivity improvement.
* Modeling Enterprise Data Hub (EDH) cloud based solutions using AWS Redshift for Analytical platform and AWS RDS for Reference and Master Data.
* Develop sample data files from JSON models to validate entity schemas before integration.
* Done data migration from an RDBMS to a NoSQL database, and gives the whole picture for data deployed in various data systems.
* Worked on Optimizing and troubleshooting various data systems.
* Wrote features to filter raw data by JSON processor from AWS Lambda, and Publishing API. The data was modified and uploaded to AWS DynamoDB by Python to ensure that the streaming data pipeline safety.
* Conducted sessions with architects, business SME and development teams to understand the Change Requests (CR’s), and effects caused on the system by the change requests.
* Analyzed and performed data profiling on Snowflake data warehouse, SAP BW.
* Developed ETL files to get data from staging tables and batch files, transform that data and load into the fact tables and data marts to populate parallel and attribute changes reports.
* Query Optimization for improving the performance of the data warehouse.
* Define and document ETL process and data flow and scheduling capabilities.
* Extracted data from the databases (Sybase, Teradata, Oracle, SQL Server, FLAT FILES) using Data Stage to load it into data warehouse repository.

***Environment: Erwin 2019R1/2018R1, PostgreSQL 10.3, Amazon RDS, NoSQL, DynamoDB, Data Stage 11.x, Attunity, Alteryx, Amazon Redshift, NoSQL Workbench, Oracle 11G, Python, Oracle SQL Developer, Confluence, Snowflake DW, JSON, SAP BW, IBM DB2, AQT, Power BI, Teradata, SQL Server, Crystal Reports.***

## Sr Data Modeler/Analyst

**State Street Corporation, Princeton, NJ March ‘15 – Dec’18** State Street is a worldwide financial services holding company. It was organized into three main divisions. Global Services business, Global Advisors business, Global Markets business. The company began investing heavily in technologies for securities management and custodian processing. As a data Modeler, responsible for migrating data from old data

warehouse to new data warehouse platform, which was developed by State Street for new clients to simplify operating models, increase service quality, reduce vendor expenses and expand cross sell opportunities.

## Roles & Responsibilities:

* Interacted with Business analysts and SMEs to gather the user requirements and participated in data modeling JAD sessions.
* Performed data analysis and profiling of source data to better understand the source systems.
* Created 3NF business area data modeling with normalized physical implementation; data and information requirements analysis.
* Created E/R Diagrams, Data Flow Diagrams, grouped and created the tables, validated the data, identified lookup tables.
* Designed a STAR schema for the detailed data marts and planned data marts involving shared dimensions (Conformed).
* Used Informatica Designer, Workflow Manager and Repository Manager to create source and target definition, design mappings, create repositories and establish users, groups and their privileges.
* Redefined many attributes and relationships in the reverse engineered model and cleansed unwanted tables and columns as part of the Source Data Analysis responsibilities.
* Performed legacy application data cleansing, data anomaly resolution and developed cleansing rule sets for ongoing cleansing and data synchronization.
* Developed the data warehouse model (Kimball’s) with multiple data marts with conformed dimensions for the proposed central model of the Project.
* Defined naming standards and extensively used Complete-Compare.
* Created, documented and maintained logical and physical database models in compliance with enterprise standards and maintained corporate metadata definitions for enterprise data stores within a metadata repository.
* Reverse Engineered databases schema into Erwin Physical Data Model for reusability and then forward engineered them to Teradata using Erwin.
* Worked on large datasets based on Mongo DB
* Worked on Business Intelligence standardization to create database layers with user friendly views in Teradata that can be used for development of various Tableau reports/ dashboards.
* Involved in massive data profiling using IDQ (Analyst Tool) prior to data staging.
* Migrated 180 mappings from Informatica ETL to Datastage tool as part of ETL conversion project.
* Review the logical model with the enterprise data governance to ensure the model is designed as per the enterprise standards.
* Worked with Database Administrators (DBAs) to finalize the physical properties of the tables such as Partition key, based on volumetric.
* Designed data models up to 3rd NF OLTP/ODS and de normalized OLAP data marts with Star Snow flake schemas.
* Member of Data model and Design Review group that oversees data model changes and system design across Enterprise Data Warehouse.

***Environment: Erwin 9.64, PL/SQL, Oracle 10g/ 9i, DB2 7.1, Informatica Data Quality 9.6.1, ER Studio, Informatica Analyst tool 9.6.1, OBIEE, Crystal Reports 2011, MongoDB, NoSQL, Teradata, SQL Server, Jira, Tableau Desktop, Tableau server, XML, Visio, ClearQuest.***

## Data Analyst

**Walt Disney Company, Glendale, CA May’14 – Feb’15** The Walt Disney Company is a world-class entertainment and technological leader. Disney Consumer Products (DCP) is the business segment of The Walt Disney Company and its affiliates that delivers innovative and engaging product experiences across thousands of categories from toys and apparel to books and fine art. DCP is comprised of three business units: Licensing, Publishing and Disney Store. As a Data Analyst, responsible for building and performing the modeling analytics with an emphasis on being able to communicate the results and implications to executive partners.

## Roles & Responsibilities:

* Gathered requirements, analyzed and wrote the design documents.
* Queried the databases, wrote test validation scripts and performed the System testing.
* Document all data mapping and transformation processes in the Functional Design documents based on the business requirements.
* Responsible for defining the key identifiers for each mapping/interface.
* Created Technical specifications documents based on the functional design document for the ETL coding to build the data mart.
* Developed Datastage Jobs to load collections data from multiple sources to the respective Dimensions and Fact tables with required business transformations.
* Worked at conceptual/logical/physical data model level using Erwin according to requirements.
* Documented, clarify, and communicate requests for change requests with the requestor and coordinate with the development and testing team.
* Worked on Tableau for Data Analysis, Digging the data for source systems for analysis and deeply dive in the data for Predictive findings and for various data Analysis by using dash boards and visualization.
* Participated in integration of MDM Hub and data warehouses.
* Reverse engineered all the Source Database's using Erwin.
* Worked with internal architects in the development of current and target state data architectures
* Used data analysis techniques to validate business rules and identify low quality missing data in the existing data.
* Produced operational reports in SSRS i.e. drill-down, drill-through, dashboard and matrix reports.

***Environment: SQL Server Management Studio-2008/2012/2014, Erwin 9.5.2, DataStage v9.1, XML, MS Access 2010, MS Excel 2010, MS Word 2010, SSRS, MS Outlook 2010, Tableau, Shell scripts, UNIX, Teradata, Crystal Reports, PowerPoint 2010.***

## Data Modeler

**VMC Systems Limited, India Feb’12 – Dec’12**

A database system was developed to track the sales purchase and material inventory involves sales, inventory & financial subsystems development. Counter sales maintenance, daily cash & bank reconciliation.

## Roles & Responsibilities:

* Analyzed the business requirements of the project by studying the Business Requirement Specification document.
* Revisited the business rules and redefined many attributes and relationships in the model and cleansed unwanted tables and columns as part of Data Analysis tasks.
* Created a logical design and physical design.
* Maintained security and data integrity of the database
* Identified the business function activities and processes, data attributes, and table metadata, and documented detailed design specifications
* Creation of database objects like tables, views, Materialized views, procedures, packages using Oracle tools like PL/SQL, SQL\* Plus, SQL\*Loader and Handled Exceptions.
* Run batch jobs for loading database tables from Flat Files using SQL\*Loader.
* Extensively used power designer for developing data model using star schema methodologies.
* Created Entity relationship diagrams (ERD), Function relationship diagrams (FRD), data flow diagrams (DFD) and enforced all referential integrity constraints using w Designer.
* Created PL/SQL packages and Database Triggers and developed user procedures and prepared user manuals for the new programs.
* Good knowledge and experience on Global Custody operations, capital markets, securities services, vendor management operations, trade finance, trade settlements, income processing, tax, corporate actions, market claims and reconciliations, NAV generations.

***Environment: Oracle 8i, SQL, PL/SQL, PowerDesigner16.1, SQL\*Loader, Perl, TOAD and UNIX.***