**PRASHANTHRAJ GOUD**

**Sr. Data Modeler/Analyst**

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**SUMMARY**

* Over 7+ years of IT experience in modeling both dimensional, relational models and Data Analysis.
* Experience in Data Modeling tools **like ERWIN Data Modeler and ER studio Data Architect.**
* Worked extensively in Data Warehouse environment and developed Data Marts.
* Involved in data analysis for both dimensional (OLAP) and relational (OLTP) applications.
* Enterprise data modeler with deep understanding of developing data models and enterprise data warehouses **using ralph Kimball and bill inmon data warehouse methodologies.**
* Business Objects enterprise solutions that include Micro strategy architecture, software deployment, Micro strategy administration
* **Ran SQL queries in Oracle database** to analyze, manipulate data and wrote **SAS programs to perform ad-hoc analysis**, data manipulation.
* Created various **SAS Reports, Tables, Graphs and Summary analysis** on PMS systems being used in these properties.
* Experience in **SQL Server Integration Services (SSIS)** and SQL Server Reporting Services (SSRS) with good knowledge on **SQL Server Analysis Services (SSAS)**
* Expertise in OLTP/OLAP System Study, Analysis and E-R modeling, developing Database Schemas like Star schema and Snowflake schema used in relational, dimensional and multidimensional modeling.
* **Experience in SAS programming for auditing data, developing data, performing data validation** QA and improve **efficiency of SAS program**s
* Good knowledge in **star and snowflake schema modeling**, identifying fact and dimension tables.
* Knowledge and experience **in process improvement, normalization/ de-normalization**, data extraction, data cleansing, data manipulation and data validation.
* Conducted work sessions with business architect to understand the business requirements and then come up with a conceptual data model.
* **Used python libraries like Pandas, Beautiful Soap, NumPy, Scikit learn and SQLAlchemy for Data Analysis.** Utilized standard Python modules such as csv, robot parser, itertools and pickle for development.
* Worked on **Python OpenStack APIs and used NumPy for Numerical analysis** and used Ajax and JQuery for transmitting JSON data objects between frontend and controllers.
* Proficient with **RDBMS like Microsoft SQL server 2012/2008 R2, oracle 10g/ 9i/ 8i** and trained in teradata.
* **Good understanding of overall SDLC** and played major role in various phases of project life cycle, such as requirements definition, functional & technical design, testing, Production Support and implementation.
* Implemented various types of dimensions like **slowly changing dimensions**, role playing, degenerate dimensions and junk dimensions in the tables according the requirement.
* Good knowledge in trouble-shooting, anticipating problem and solving issues with optimized solutions.
* Confident to interact, coordinate and work with clients, end-user, team members and customers.
* Expertise **working with various teams such as business analysts, ETL/ report developers**, database administrators and support teams.
* Good understanding of views, Synonyms, Indexes, Joins and Partitioning.
* Experience in **extracting, transforming and loading (ETL) data from spreadsheets, database** tables and other sources using Microsoft SSIS and Informatica.
* 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.
* Developed **mapping spreadsheets for (ETL) team with source to target data** mapping with physical naming standards, datatypes, volumetric, domain definitions, and corporate meta-data definitions.
* Involved in various projects related to Data Modeling, System/Data Analysis, Design and Development for both OLTP and Data warehousing environments.
* Facilitated data requirement meetings with business and technical stakeholders and resolved conflicts to drive decisions.
* **Worked extensively on Erwin and ER Studio in several projects in both OLAP and OLTP** applications.
* Practical understanding of the Data modeling (Dimensional & Relational) concepts like Star-Schema Modeling**, Snowflake Schema Modeling, Fact and Dimension tables**.
* Comprehensive knowledge and experience in process improvement, **normalization/de-normalization,** data extraction, data cleansing, data manipulation.
* Implemented **Slowly Changing Dimensions - Type I & II in** Dimension tables as per the requirements.
* **Excellent communication skills** & possesses ability to work effectively in a team environment.

**EDUCATION**

**Bachelors in Computer Science**

JNTU University— Hyderabad, India

**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 |
| Programming Languages | SQL, T-SQL,HTML, XML, VB.NET, C, Java, SAS, R, Python |
| Database Tools | Microsoft SQL Server 2000/2008, Teradata, Oracle 10g/11g, MS Access, JDE 9.0 |
| Packages | Microsoft Office 2010, Microsoft Project 2010, Microsoft Visio, Share point Portal Server 2003/2007. |
| Reporting Tools | Tableau, PowerBI, QlikView v9+ |
| Operating Systems | Linux, UNIX , Windows |
| Certifications | Java 2.0, Android and Project Development (Intern) |

**Professional Experience**

**CLIENT: ETS, Princeton, NJ. February 2017- Present**

**ROLE: Sr. Data Analyst**

* Developed database in projects with large, diverse, client data source files.
* Worked on the planning and coordination of work activity for projects involving more than 2 million records.
* **Experience in SAS programming for auditing data, developing data, performing data validation** QA and improve **efficiency of SAS program**s
* Managed multiple projects in a fast-paced environment meeting milestones and deliverable dates with no supervision.
* Used Erwin for reverse engineering to create graphical representation in the form of Entity Relationships.
* Explained and validated work results and insight applied to tools used for client analysis and documentation **of SAS files and library structures**.
* **Ran SQL queries in Oracle database** to analyze, manipulate data and wrote **SAS programs to perform ad-hoc analysis**, data manipulation.
* Created various **SAS Reports, Tables, Graphs and Summary analysis** on PMS systems being used in these properties.
* Checked for invalid/out of range data and Communicated with property managers to verify information and fix invalid data.
* Created dimensional model for the reporting system by identifying required dimensions and facts using Erwin.
* **Transferred data from Oracle database as well as MS Excel into SAS for analysis and used filters** based on the analysis.
* Used **SAS Import/Export Wizard as well as SAS Programming techniques** to extract data from Excel.
* Compared data across various data sets and analyzed dimensions of data.
* Used **SAS Base programming as well as SAS Enterprise Guide** 4.0 to produce various reports, charts and graphs.
* Participated in the technology support team meeting to coordinate, review and determine appropriate hotel property software system for hotel property. Involved in extensive **Data Analysis** on the **Teradata** and Oracle Systems querying and writing in **SQL** and **TOAD**.
* Identified and tracked **slowly changing dimensions** and determined the hierarchies in dimensions.
* Assisted the ETL team to document the transformation rules for data migration from **OLTP** to **Warehouse** environment for reporting purposes.
* Did **Performance Tuning** of the database, which included creating indexes, optimizing **SQL** Statements & monitoring the server.
* Maintained the integrity of data to ensure the effective functioning and also monitored **data quality**.
* Involved in **Data Model Peer** reviews.
* Involved in maintenance of Models, Loading models to **metadata repository**.
* Worked on **Master data management (MDM)** and data governance for improving data quality.

**Environment: SAS Guide, Base SAS,** Oracle 11g, Oracle, MS Access, Erwin, Teradata, Data stage, Windows XP, MS Excel.

**Client: Cigna, Hartford, CT. April 2016 – January2017**

**Role: Sr. Data Analyst**

* Implemented **REST API’s in Python** using micro-framework like Flask with SQLAlchemy in the backend for management of data center resources on which OpenStack would be deployed.
* **Used python libraries like Pandas, Beautiful Soap, NumPy, Scikit learn and SQLAlchemy for Data Analysis.** Utilized standard Python modules such as csv, robot parser, itertools and pickle for development.
* Worked on **Python OpenStack APIs and used NumPy for Numerical analysis** and used Ajax and JQuery for transmitting JSON data objects between frontend and controllers.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the HTML, CSS, JavaScript and JQuery.
* Used Model Mart of Erwin for effective model management of sharing, dividing and reusing model information.
* Implemented AJAX for dynamic functionality of a webpages for front end applications and worked on front end frameworks like CSS Bootstrap for responsive webpages.
* Developed and tested **many features for dashboard, created using Bootstrap, CSS, and JavaScript** and developed Wrapper in Python for instantiating multi-threaded application.
* Developed views and templates with Python and Django's view controller and templating language to create a user-friendly website interface.
* **Managed datasets using Panda data frames and MySQL, queried MYSQL database** queries from python using Python-MySQL connector and MYSQLdb package to retrieve information.
* Added several options to the application to choose particular algorithm for data and address generation.
* Developed and **designed automation framework using Python and Shell scripting** and developed the project in Linux environment.
* Maintained the versions using GIT and sending the release notes for each release**Extracted data from the databases (Oracle and SQL Server, DB2, FLAT FILES)** using Informatica to load it into a single data warehouse repository.
* Facilitated in developing testing procedures, test cases and User Acceptance Testing (UAT)
* Integrated the work tasks with relevant teams for smooth transition from testing to implementation
* Involved in documentation of **Data Mapping and ETL specifications** for Data warehouse.
* Involved in designing and developing **ETL Process flow** and implemented it using **ODI package** during Development phase.
* **Reverse Engineered** source and Target data stores using **Reverse Engineering Knowledge module** in **ODI**.

**ENVIRONMENT:** Python 2.4, CSS, HTML, BOOTSTRAP, JavaScript, Erwin, JQuery, AJAX, MYSQL, Linux, Heroku, GIT, flask and python libraries such as NumPy, SQL Alchemy, MySQL DB, Automation framework, Jenkin.

**Client: Wells Fargo, Fremont, CA August 2015- March 2016**

**Role: Sr. Data Modeler/ Analyst**

* Analysis of functional and non-functional categorized data elements **for data profiling and mapping** from source to target data environment. Developed working documents to support findings and assign specific tasks.
* Involved with data profiling for multiple sources and answered complex business questions by providing data to business users. **Identified and compiled common business** terms for the new health care system that become central part of communication among project stakeholders to avoid ambiguity
* Worked with **data investigation, discovery** and mapping tools to scan every single data record from many sources.
* Reverse engineered all the Source Databases using Erwin.
* Wrote and executed unit, system, integration and UAT scripts in a **data warehouse projects**.
* Troubleshot test scripts, **SQL queries, ETL jobs**, data warehouse/data mart/data store models.
* Worked on front end Java applications for data analysis and providing results to Business users.
* Extensively **used ETL methodology** for supporting data extraction, transformations and loading processing, in a **complex EDW using Informatica** and performed data reconciliation between integrated systems.
* Metrics reporting, data mining and trends in helpdesk environment using Access.
* Written **complex SQL queries for validating the data** against different kinds of reports generated by Business Objects XIR2.
* Extensively **used MS Access to pull the data** from various databases and integrate the data and worked on SAS for Data Analysis.
* Assisted in the oversight for compliance to the Enterprise Data Standards.
* Worked in **importing and cleansing of data from various sources like Teradata, Oracle, flat files, SQL** Server 2005 with high volume data. Worked with Excel Pivot tables.
* Created and Monitor workflows using workflow designer and workflow monitor.
* Performing **data management projects** and fulfilling ad-hoc requests according to user specifications by utilizing data management programs and tools like Perl, Toad, MS Access, Excel and SQL.
* Worked on Salesforce as a **CRM tool to analyze the requirements** of the customers.
* Written SQL scripts to test the mappings and Developed Traceability Matrix of Business Requirements mapped to **Test Scripts to ensure any Change Control in** requirements leads to test case update.
* Involved in **extensive DATA validation by** writing several complex SQL queries and Involved in back-end testing and worked with data quality issues.
* Developed **regression test scripts** for the application and involved in metrics gathering, analysis and reporting to concerned team and tested the testing programs. Analysis on Mainframe data to generate reports for business users.
* Identify & record defects with required information for issue reproduced by development team. Developed **and maintained data dictionary to create metadata reports** for technical and business purpose.
* Created **action plans to track identified open issues and action items** related to the project
* Prepared analytical and status reports and updated the project plan as required

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

**Client: Atos, Dallas, TX**

**Role: Sr. Data Modeler/Analyst November 2014 - July2015**

* Worked on **multiple projects with different business units** including Insurance actuaries
* Gather the various reporting requirement from the business analysts.
* Gather all the Sales analysis report prototypes from the business analysts belonging to different Business units; Participated in JAD sessions involving the discussion of various reporting needs.
* **Reverse engineered the reports and identified the Data Elements** (in the source systems), Dimensions, Facts and Measures required for new enhancements of reports.
* Conduct Design discussions and meetings to come out with the appropriate Data Mart at the lowest level of grain for each of the Dimensions involved.
* **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.
* Conduct Design reviews with the business analysts and content developers to create a proof of concept for the reports.
* Ensured the feasibility of the logical and physical design models;
* Collaborated with **the Reporting Team to design Monthly Summary Level Cubes** to support the further aggregated level of detailed reports.
* Worked on the **Snow-flaking the Dimensions to remove redundancy**.
* Designed Sales Hierarchy dimensions to handle sales hierarchy reporting historically and dynamically
* Worked with the Implementation team to ensure a smooth transition from the design to the implementation phase
* Worked closely with **the ETL SSIS Developers to explain the complex Data Transformation** using Logic
* Created **ETL Jobs and Custom Transfer Components** to move data from Oracle Source Systems to SQL Server usingSSIS,

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

**Client: Softmax Technologies, Bengaluru, India Jul 2013 - September 2014**

**Role: Data Modeler/ Analyst**

* 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.
* 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, 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, SSRS, Business objects,

Informatica (IDQ)

**Client: Vicisoft , Hyd, India Jul 2011 - July 2013**

**Role: Data Modeler**

* Worked with the Business Analyst and DBA for requirements gathering, business analysis, and testing and 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 decomposition** **and logical models** into an **enterprise data model**.
* Consulted with client management and staff to identify and document business needs and objectives, current operational procedures for creating the logical data model.
* 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.