**Harsh Desai**

**Sr. Data Modeler**

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* **9+ years** of Industry experience as a **Data Analyst** with solid understanding of **Data Modeling,** Evaluating Data **Sources** and strong understanding of **Data Warehouse/Data Mart Design, ETL, BI, OLAP, Client/Server applications.**
* Performed **data analysis** and **data profiling** and Expert in writing **SQL queries and optimizing the queries** in Oracle, SQL Server 2008/2012, Netezza and **TeradataV2R6/R12/R13**.
* Excellent **Software Development Life Cycle (SDLC)** with good working knowledge of testing methodologies, disciplines, tasks, resources and scheduling
* Strong and Excellent experience **in Data Analysis, Data Migration, Data Validation, Data Cleansing, Data Verification, identifying data mismatch,** Data Import, and **Data Export** through the use of multiple ETL tools such as Ab Initio, Talend and Informatica PowerCenter**.**
* Excellent experience on Teradata SQL queries, Teradata Indexes, Utilities such as **Mload, Tpump, Fast load and FastExport.**
* Experience in **Data masking** using Informatica data masking transformation and Strong experience in using **Excel** and MS Access to dump the data and analyze based on business needs.
* Excellent knowledge on **Perl** & **Unix** and Strong knowledge with **Big Data and Data Analytics** technologies.
* Experienced working with **Excel Pivot** and VBA macros for various business scenarios.
* Experience in testing and writing **SQL and PL/SQL** statements - Stored Procedures, Functions, Triggers and packages.
* Solid hands on experience with administration of data model repository, documentation in meta data portals in such as Erwin, ER Studio and Power Designer tools.
* Excellent experience in analysis huge volumes of data in industries various Industries.
* Expertise in all aspects of data management methods and practices including Data Modeling, creation of Logical and Physical Data Models **(LDMs/PDMs),** Design of Data warehouse schemas, Forward engineering and reverse engineering , Data migration/conversion with ETL tools and data warehousing.
* Strong experience with data mining and management with huge data sources (Oracle**/Teradata, Hadoop, NoSQL, Netezza**)
* Proven experience with design and solution on Data mining and analytics modeling on cross datasets.
* Excellent knowledge on creating reports on **SAP Business Objects**, Webi reports, Tableau, **TIBCO** **Spotfire** for multiple data providers.
* Solid experience in working and creating **3rd Normal Forms (ODS) and Dimensional models (OLAP)**
* Have good exposure on working in **offshore/onsite model** with ability to understand and/or create functional requirements working with client and also have Good experience in requirement analysis and generating test artifacts from requirements docs.
* An **excellent team player** & technically strong person who has capability to work with **business users, project managers, team leads, architects** and peers, thus maintaining healthy environment in the project.

**Technical Skills:**

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| **Data Warehousing** | Informatica 9.5/9.1/8.6/7.1.2 (Repository Manager, Designer, Workflow Manager, and Workflow Monitor),Ab-Initio, Talend |
| **Reporting Tools** | Business Objects6.5, XIR2, Tableau, TIBCO Spotfire |
| **Data Modeling** | Star-Schema Modeling, Snowflake-Schema Modeling, FACT and dimension tables, Pivot Tables, Erwin |
| **RDBMS** | Netezza Twin fin, Teradata R14, R13, R12, Oracle 11g/10g/9i/8i/7.x |
| **Programming** | SQL, PL/SQL, UNIX Shell Scripting, VB Script |
| **Environment** | Windows (95, 98, 2000, NT, XP), UNIX |
| **Databases** | Oracle 11g/10g/9i/8i, SQL Server 2000, 2005 |
| **Web Technologies** | HTML, DHTML, XML, XSD, SOAP, WSDL, Web services |
| **Other Tools** | TOAD, MS-Office suite (Word, Excel, Project and Outlook), BTEQ, Teradata V2R6/R12/R13/R14 SQL Assistant, Aginity |

**Dun and Bradstreet, Short hills NY July’14 – Till now**

**Sr. Data Modeler**

**Work Experience:**

**Roles & Responsibilities:**

* 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.
* Created, documented and maintained logical & physical database models.
* Identified the entities and relationship between the entities to develop **Conceptual Model using ERWIN.**
* Developed Logical Model from the conceptual model.
* Worked with DBA's to create a best-fit Physical Data Model from the logical data model.
* Used forward engineering to generate DDL from the **Physical Data Model** and handed it to the DBA.
* Developed dimensional model for Data Warehouse/**OLAP** applications by identifying required facts and dimensions.
* Designed **STAR schema** for the detailed data marts and plan data marts consisting of confirmed dimensions.
* Performed Data modeling for an existing Databases using Toad Data Modeler and ER Studio.
* Worked with the Business Subject Matter Experts to understand and define data management policies including enterprise naming and definition standards, specification of business rules, data quality analysis, standardized calculations and summarization definitions, and retention criteria.
* Performed logical data modeling, physical data modeling (including reverse engineering) using the **Erwin Data Modeling tool**.
* Did data modeling and involved with design and development of conceptual, logical and physical data models using **AllFusion Data Modeler (Erwin)**
* Performed logical data model design including **normalization/de-normalization referential integrity, data domains; primary and foreign key** assignments and data element definitions as applied to both relational and dimensional modeling.
* Demonstrated experience in the gathering, assimilation, organization, categorization and analysis of business requirements to create corresponding designs of logical and physical data models
* Created data masking mappings to mask the sensitive data between production and test environment.
* Ensure compliance of **Data Quality in MDM**.
* Assist with development and ongoing maintenance of data modeling environment.
* Participate in development of core application and data warehouse data models.Work with application developers to map process models to data models.
* Perform logical and physical **OLAP / OLTP** schema design.
* Worked on claims, membership and provider related data and extracted data from various sources such **as flat files, Oracle and Mainframes**.
* Worked with data investigation, discovery and mapping tools to scan every single data record from many sources.
* Performed data analysis and data profiling using complex SQL on various sources systems including Oracle.
* Written several shell scripts using **UNIX Korn shell** for file transfers, error logging, data archiving, checking the log files and cleanup process.
* Performed data management projects and fulfilling ad-hoc requests according to user specifications by utilizing data management software programs
* Worked on **SQL queries in a dimensional data warehouse** as well as a relational data warehouse.
* 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.
* Worked with end users to gain an understanding of information and core data concepts behind their business.
* Assisted in defining business requirements for the **IT team** and created BRD and functional specifications documents along with mapping documents to assist the developers in their coding.
* Identify & record defects with required information for issue to be reproduced by development team.
* Designed and developed database models for the operational data store, data warehouse, and federated databases to support client enterprise Information Management Strategy.
* Flexible to work late hours to coordinate with offshore team.

**Environment :- MS SQL Server 2012, Oracle 10g, MS office, Data Stage 8.x, Tibco Spotfire, Clear Quest, Clear Case, Teradata R13**

**Care Source, Dayton, OH June’13 – June’14**

**Sr. Data Modeler**

Roles and Responsibilities:

* Analyzed Data sources and requirements and business rules to perform logical and physical Data modeling.
* Facilitated modeling sessions and design walk-throughs with DBA and development team members.
* Worked with the **DBA** to convert logical Data models to physical Data models for implementation.
* Extracted data from various sources like **Oracle, Mainframes**, **flat files** and loaded into the target **Netezza** database
* Worked on data warehousing, **ETL, SQL, scripting and big data** (**MPP + Hadoop**).
* Researches, designs, develops, configures, integrates, tests and maintains existing and new business applications and/or information systems solutions including databases through integration of technical and business requirements.
* Worked on conceptual, physical and logical data models **(3NF)** & dimensional data models (Star and Snow Flake Schema)
* **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
* Devised and maintained a rigorous release process, e.g. two-step model change: in one release, the replacement data element is added, in the next one, the one being replaced is removed.
* Create logical and physical data models using Erwin and reviewed these models with business team and data architecture team.
* Design and produce client reports using Excel, Access, Tableau and SAS.
* Used **Netezza Analytical** functions like **RANK, ROW\_NUMBER etc.**
* Performed **dicing and slicing** on data using Pivot tables to acquire the churn rate pattern and prepared reports as required.
* Good Experience in implementing Web Services such as **SOAP**, WSDL, REST.
* Worked on TIBCO Spotfire to create various analytics, **predictive analytics** reports & mobile **metrics**.
* In depth analyses of data report was prepared weekly, biweekly, monthly using MS Excel, SQL & UNIX.

**Environment: PL/SQL, Informatica 9.5, Oracle 11G, Netezza, Aginity, ERWIN data modeler, UNIX, TIBCO Spotfire, Tableau 8, Big Data.**

**HSBC Bank, Buffalo, NY Feb’12 – May’13**

**Sr. Data Analyst/Data Modeler**

Roles and Responsibilities:

* Involved in the projects from requirement analysis to better understand the requirements and support the development team with a better understanding of the data.
* Did the impact analysis for multiple projects from a data modeling prospective.
* Designed logical and physical data models for multiple OLTP and Analytic applications.
* Created **data masking** mappings to mask the sensitive data between production and test environment.
* Performing data management projects and fulfilling ad-hoc requests according to user specifications by utilizing data management software programs and tools like **Perl, Toad, MS** **Access**, **Excel** and SQL
* Worked with data investigation, discovery and mapping tools to scan every single data record from many sources.
* Performed data analysis and data profiling using complex SQL on various sources systems including Oracle 10g/11g and **Teradata**.
* Extracted data from Oracle 11g and upload to **Teradata** tables using Teradata utilities **FASTLOAD & Multiload.**
* Assisted in creation, verification and publishing of metadata including identification, prioritization, definition and data lineage capture for Key Data Elements (KDE) and Important Data Elements (IDE).
* 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.
* Extensively used **ERwin** for data modeling and created conceptual, logical and physical data models.
* Created Webi reorts and modified existing Universes in **SAP Business Objects**
* Metrics reporting , **data mining** and trends in helpdesk environment using **Access**

**Environment:** **Oracle 11g, SQL Server 2008, Windows XP, Microsoft Project 2000, Informatica, HTML, Business Objects, Erwin, MS Excel, SharePoint 2010, PowerPoint, MS Visio and MS Outlook**.

**Magellan Health Services, Harrisburg, PA Sep’10 – Jan’12**

**Data Analyst/Data Modeler**

Roles and Responsibilities:

* Involved with **data** **profiling** for multiple sources and answered **complex business questions by providing data to business users.**
* Worked with data **investigation, discovery** and mapping tools to scan every single data record from many sources.
* Designed class and activity diagrams using Power Designer and UML tools like Visio
* Resolved multiple Data Governance issues to support data consistency at the enterprise level.
* Created data model for Enterprise Data Repository(EDR) designed to support the enterprise data needs for multiple applications across the organizations
* Perform **data reconciliation** between integrated systems.
* Metrics reporting , **data mining** and trends in helpdesk environment using Access
* Involved in data mining, transformation and loading from the source systems to the target system.
* 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 data bases and integrate the data.
* Performed **data analysis, Data Migration** and **data profiling** using complex **SQL** on various sources systems including Oracle and **Teradata**.
* Responsible for different Data mapping activities from Source systems to **Teradata**
* Assisted in the oversight for **compliance to the Enterprise** Data Standards
* Worked in importing and cleansing of data from various sources like **Teradata, Oracle 10g/11g, flat files,** SQL Server 2005 with high volume data
* Good Experience in implementing Web Services such as SOAP, WSDL, REST.
* Worked on TIBCO Spotfire to create various analytics, **predictive analytics** reports & mobile **metrics**.
* In depth analyses of data report was prepared weekly, biweekly, monthly using MS Excel, SQL & UNIX.

**Environment: PL/SQL, Informatica 9.5, Oracle 11G, Netezza, Aginity, ERWIN data modeler, UNIX, TIBCO Spotfire, Tableau 8**

**Trianz, Bangalore, India Mar’06 – Aug’10**

**Data Analyst/Data Modeler**

Roles and Responsibilities:

* Used **Linux** for file transfer and file manipulation.
* Used SQL for querying the Teradata and oracle DB in **Linux** environment.
* Tested **Complex ETL Mappings** and Sessions based on business user requirements and business rules to load data from source flat files and RDBMS tables to target tables.
* Designed & Created **Test Cases based on the Business requirements** (Also referred Source to Target Detailed mapping document & Transformation rules document).
* Created dimensional model for the reporting system by identifying required dimensions and facts.
* Data modelling was performed using **ERWIN tool** to build logical and physical models.
* Recommended opportunities for reuse of data models in new environments
* Involved in extensive **DATA validation** using **SQL queries** and back-end testing
* Used **SQL for Querying the database in UNIX environment**
* Involved with Design and Development team to implement the requirements.
* Involved in Manual and Automated testing using **QTP** and **Quality Center**.
* Conducted Black Box – Functional, Regression and Data Driven. White box – Unit and Integration Testing (positive and negative scenarios).
* **Defects tracking**, review, analyzes and compares results using Quality Center.
* Participating in the MR/CR review meetings to resolve the issues.
* Defined the Scope for **System** and **Integration Testing**
* Preparation of various test documents for **ETL** process in Quality Center.
* Involved in Test Scheduling and milestones with the dependencies
* Functionality testing of email notification in **ETL** job failures, abort or data issue problems.
* Identify, assess and intimate potential risks associated to testing scope, quality of the product and schedule

**Environment: ERWIN 7.3, oracle 11g, SQL, Microsoft windows, Test Director 7.x, Load Runner 7.0, Oracle 10g, UNIX AIX 5.2, PERL, Shell Scripting TOAD from Quest software**