**Karthik Reddy Pedditi**

**Teradata Developer**

**Contact: (669) 223-0430 karthik.p3088@gmail.com**

**Summary**

* **8+ years** of data warehousing experience in Database Design, System Analysis, Implementation, Maintenance, Database Administration and support for Data warehouse and other Database applications.
* Expert in **tuning complex Teradata Queries** including **Joins, Sub queries** and made recommendations on adding **statistics, volatile tables usage**, **Secondary Indexes** and **Join Indexes** based on frequency of SQL usage.
* Strong in-depth knowledge in doing data analysis, data quality and source system analysis.
* Experience in **Backup & Recovery**, **System Performance Monitoring using Viewpoint**, SQL tuning and scheduling custom alerts.
* Strong working experience in Data Warehousing applications, Extraction, Transformation and Loading data of multiple formats into Data Warehouse.
* Highly skilled Teradata hands-on expert, efficient using **Teradata utilities, OLAP functions and tuning** complex queries/procedures.
* Worked on ETL development projects with multiple team members, providing mentoring, technical assistance, troubleshooting and alternative development solutions.
* Actively involved in **Error and Exception** handling on various ETL processes.
* Familiar with using Set, Multiset, Derived, Volatile, and Global Temporary tables in Teradata for larger Ad hoc SQL Requests.
* Experience in all phases of Data warehouse development from Requirements, analysis, design, development, testing and post production support.
* Hands-on experience using **Informatica** for building data warehouses and integrating different data sources.
* Developed **BTEQ scripts, Fastload, Multiload, TPUMP, FastExport and TPT** utilities in Teradata based on business rules and written extract algorithms to handle high volume of data from various data sources and flat files into target data warehouse database.
* Strong knowledge on Teradata MPP architecture such as **AMPs, BYNET, Partitioning, Primary Indexes, Secondary Indexes** and **Join Indexes** etc.
* Experience in developing Fact tables, Dimension tables and Slowly Changing Dimensions.
* Knowledge of Tableau Server Activities such as creating report schedules, data connections, projects, and groups.
* Experience in Database migration from Legacy Systems such as Oracle, SQL Server, MS Access and Flat Files into a Teradata system.
* Experience working with Query Grid, Data Mover, Query Director and AtanaSuite.
* Actively involved in user meetings to discuss business needs and develop logical, conceptual and physical models.
* Proficient in using **Viewpoint**, Teradata Manager & Teradata Administrator tools.
* Actively involved in all phases of SDLC right from business requirements gathering, analysis, data warehouse design, data modeling, data mining, application development, testing and production support.
* Involved in Teradata hardware & software upgrades (Patch, Version etc), Opened incidents with helpdesk on various system issues and had them resolved.
* **24x7Production Support** for ETL jobs for daily, Monthly and Weekly schedule.
* Independent, Self-starter, enthusiastic team player with strong adaptability to new technologies.
* Excellent written and verbal communication skills, highly adaptive to a team environment and proven ability to work in a fast-paced teaming environment.

**TECHINICAL SKILLS:**

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| --- | --- |
| **DBMS:** | Teradata 15.10/15.0/14.0/13.10, SQL Server, Oracle 9i, Postgres SQL pgAdmin 4 |
| **Languages:** | PL/SQL, SQL, Postgres SQL, C, C++, HTML |
| **Tools:** | BTEQ, Fastload, Fastexport, Multiload, TPump, Datamover, SSIS, Informatica V10/9.0, Tableau 8.0/9.0, Query Grid, Data Mover, AtanaSuite |
| **Operating Systems:** | UNIX, Linux, Windows |
| **Data Modeling:** | Erwin |
| **Scheduling Tools:** | Autosys, Control-M, $U |

**EDUCATION**:

Bachelor in Computer Science and Engineering

**WORK EXPERIENCE:**

**Client: Blue Shield of California Sep 2015 – Current**

**Role: Teradata Developer**

**Responsibilities**:

* Involved in all phases of this forklift project starting design enhancements, technical specification, source to target mapping and building report tables for the new **Datamart** and involved in documentation of requirements and technical design.
* Interacted with Business users and Data Modeler to develop the **Logical** and **Physical Design** for the **Datamart**.
* Loaded data from several sources such as flat files and SQL server tables to Staging area using **Teradata FLOAD, MLOAD, TPUMP** and **BTEQ**.
* Written several Teradata **BTEQ** scripts to implement the business logic and populated new fields.
* Developed Teradata scripts for history data population.
* Dealt with Incremental data as well **Migration data** to load into the Teradata.
* Implemented database schema changes to stage/production database.
* Extensively worked on the **Performance Tuning** of Teradata SQL queries by utilizing explain plan, analyzing the data distribution among AMPs, collecting statistics on tables, introducing PPI on large tables, created single column and multi column Join Indices.
* Involved in writing **Teradata scripts** to extract data from Data warehouse .
* Pulled load resource consumption metrics from Teradata DBQL and presented to management and made recommendation to improve performance.
* Extensively used Fastexport and Fastload utilities to export and load data to/from Flat files.
* Involved in writing **Teradata scripts** to extract data from Data warehouse.
* Monitored loads progress via Teradata Viewpoint.
* Involved in Performing the Unit testing and basic functional testing with different set of data.
* Query Analysis using **Explain for unnecessary product joins, confidence factor, join type**, order in which the tables are joined.
* Created users with different profiles and Roles to control the access on the system.
* Involved in Datamover set-up for copying daily delta data from production to BCP platform.

**Environment**: Teradata 15.10, SQL server-SSIS

**Tools:** Teradata SQL Assistant, Teradata Administrator, View Point, Teradata FastLoad, MultiLoad, FastExport, BTEQ, Datamover, QueryGrid, QueryDirector, Informatica Power Center 9.6.1.

**Client:Williams-Sonoma Inc, CA May 2014 - Aug 2015**

**Role: Teradata Developer**

**Responsibilities:**

* Involved in requirement analysis, database design, coding, testing, implementation and maintenance of ADAPT application.
* Involved in Preparing Technical Design Document for ETL Informatica process.
* Migrating Data from Oracle to Teradata in an efficient way using Teradata TPT.
* Source System Analysis and provide input to data modeling, and developing ETL design document as per business requirements.
* Creating Complex Stored Procedures for supporting the ETL loads.
* Requirement Gathering, Backend development, writing complex stored procedures, performing backup and recovery and performance tuning to the existing system.
* Involved in Tableau Server Activities such as creating report schedules, data connections, projects, and groups.
* Responsible for performing optimization techniques and Structured Query Language (SQL) tuning, Performance Data Collection and Reporting (PDCR) and Database Query Logging(DBQL).
* Providing solution to improve space utilization and performance tuning to the existing system.
* Created incremental refreshes for data sources on Tableau server.
* Tuned complex Teradata queries to meet performance level agreements using Statistics, Indices, and Partitioning Techniques.
* Developing Informatica mappings with the collection of all Sources, Targets, and Transformations using Informatica Designer.
* Involved in preparation of test case documents.
* Involved in the technical workshops during the initiation and definition stages of project.
* Gathered requirements by involving in meetings with Business Analysts and Business users to understand the functionality.
* Involved in Analyzing and providing solutions to challenges that may arise while upgrading the software to newer version.
* Involved in discussions with clients and business users for ad-hoc business requirements gathering and understanding.
* Compressed tables using AtanaSuite.
* Performed Data copy through TARA GUI.
* Involved in the preparing test case documents.
* Worked on automation and performance Improvement of jobs.
* Performed code building and Unit testing.
* Deployed scripts to different environment through Tortoise SVN.

**Environment**:TD14.X, SLES 10x, SLES11x

**Tools**: Teradata SQL Assistant, Teradata Administrator, View Point,Tableau Desktop 8.0/9.0,Informatica Power Center, TARA, BTEQ, TPT, Fastload, Fastexport, Multiload, Atana Suite.

**Client: Kroger, OH Feb 2012 - Mar 2014**

**Role: Teradata Developer**

**Responsibilities**:

* Interacted with clients to understand their direct marketing needs and gathered business requirements.
* Used Teradata SQL Assistant to process ad-hoc and business requests and to extract data from various data sources.
* Extracted data from production database (Oracle) and prepared financial reports using oracle SQL, PL/SQL, Teradata, and BTEQ.
* Performed analysis, review, and estimation of client requests, prepared and reviewed system requirements and client documentation.
* Participated with Business Analysis team to understand the requirements along with design of the data warehouse structure.
* Produced functional specifications and led weekly meetings with developers and business units to discuss outstanding technical issues and deadlines that had to be met.
* Performed Data analysis and prepared the Physical data, based on the requirements.
* Performed Data validations based on transformations, lineage and extraction.
* Used Informatica Power Center to create mappings, sessions and workflows for populating the data into dimension, fact, and lookup tables simultaneously from different source systems.
* Selection of Teradata load utilities based on the nature of data.
* Designed/Created BTEQ Scripts to access data from Teradata source System and to generate Reports using MS-EXCEL, SQL and UNIX for weekly and monthly.
* Designed/Created several Multiload / Fastload scripts to load the staging/target tables.
* Loading staging tables on Teradata and further loading target tables on Teradata via views.
* Creating load process to perform aggregations and load base tables.
* Write hundreds of DDL scripts to create tables, views and indexes in the company Data Warehouse.
* Usage of concepts involving different types of Indexes, Joins, Spaces etc. for optimum performance of Teradata.
* Wrote complex SQL statements to ensure data consistency by filtering corrupt data and implemented various constraints and Triggers to preserve data integrity.
* Proficient in writing Shell Scripts for automation of ETL process and Monitoring reports, running UNIX scripts with various timers according to the need of when the data had to be refreshed.
* Creating weekly, daily and ad-hoc reports, by writing complex SQL queries.

**Environment:** Teradata 14, Oracle 9.2.0.1, Informatica Power Center 9.1.0/8.6.0, SAS 9.4, Erwin4.1, Unix (Sun Solaris/IBM), FTP, AutoSys.

**Client: AT&T, IL. Nov 2010 - Dec 2011**

**Role: Teradata Analyst**

**Responsibilities**:

* Gathering the requirements from various source system teams, business users and interacting with business analysts and system analysts.
* Worked on loading of data from several flat files sources to staging area using Teradata Utilities.
* Attended meetings and had several discussions with data architects team to understand the source system elements and creating source to target mapping document with transformation logic.
* Interacting with the Database Administrators for creating the new Databases, Tables and migration of scripts and DDL's from one environment to the other environment.
* Based on the End user and business user’s requirement changes, created and implemented the change requests and modified the code accordingly and tested and moved in to production and worked on maintenance of the jobs as well.
* Worked and coordinated with various source system teams, system analyst, testing teams and other vendors and attending regular triage meetings and discussions.
* Performed Data validations and verification of source system to data and target system data which has been processed and loaded.
* Written several Teradata BTEQ scripts to implement the business logic.
* Worked on Tuning, and troubleshooting, improving the performance of the scripts and load utilities and tuned the queries to increase the processing speed.
* Performed Unit testing, Regression testing and Integration testing between various modules and systems.

**Environment**: Teradata (TD 13.X), BTEQ, FASTLOAD, MLOAD, Windows XP.

**Client: Vodafone India Ltd, India. Jan 2010 - Oct 2010**

**Role: ETL Developer**

**Responsibilities**:

* Responsible for interacting with the business users to gather the requirements and preparing design documents.
* Involved in implementing Multi-dimensional model using star schema to fit reporting query and Business Analysis Requirements.
* Documenting every ETL mapping specification.
* Preparing documentation for source analysis & ETL design, which are required prior to development.
* Prepared migration document to move the mappings from development to testing and then to production repositories.
* Developed data Mappings between source systems and warehouse components using Mapping Designer.
* Created different source definitions and Target definitions to extract data from flat files and relational tables.
* Created, Scheduled and monitored Sessions and Batch Processes based on demand, run on time, run only once using **InformaticaServer Manager.**
* Involved in the development and testing of Informatica mappings and updateprocesses.
* Created number of standard reports based on the existing classes/objects.
* Created User profiles/security, Calculations and Filters using Business Objects.

**Environment:**Informatica-Power Center, Business Objects, ORACLE 9i, SQL Server, SQL, PL/SQL.

**Client: Reliance, India. Jun 2009 - Dec 2009**

**Role: Data Analyst**

**Responsibilities**:

* Involved in understanding of data extraction, which involves Online Transaction Processing (OLTP) system and centralized database server.
* Analyzing the requirements and design documents and understanding the functionality of target system.
* Created data models based on customer requirements.
* Implement business logic to perform necessary data transformations (ETL process) before it is loaded into its Destination table.
* Develop SQL statements using joins, sub queries and correlated sub queries.
* Develop test cases and test plans to perform unit testing on the packages created, for quality assurance.
* Assist quality assurance testing teams.
* Assisted to build analytic tools to manage data and streamline data analyses using SQL Server.
* Collaborated with data architect, business users, and developer team with validation issues and defects.
* Conducted trends and patterns analysis to figure out root cause of Data Issues to improve theDataQuality.
* Generated weekly and quarterly Metrics to track trends, changes in business climate using MS Access.

**Environment**: SQL Server [2008 R2 SP3](https://support.microsoft.com/en-us/help/2979597)/SP4, MS Access, Excel, Windows XP.