**Santhosh**

**TeradataDeveloper**

**PROFESSIONAL SUMMARY:**

* **8 years** of experience in the IT industry, coupled with extensive experience in Data Warehousing Teradata (V2R6/12.0/13/14) & UNIX Environment for Decision Support Systems.
* Extensive experience in **TeradataDatabase design**, **implementation and maintenance** mainly in large scale Data Warehouse environments.
* Extensive experience in **Administration** and **maintenance of Dev, Stage, prod** and **standby databases** for **DSS** and **Data Warehousing environments**.
* Strong background in **healthcare** and Clinical insurance projects.
* Experienced working with **healthcare** data.
* Comfortable with both technical and functional applications of **RDBMS, Data Mapping, Data management, Data transportation and Data Staging**.
* Hands on experience in **Teradata RDBMS** using **FASTLOAD, MULTILOAD, TPUMP, FASTEXPORT, Teradata SQL and BTEQ** Teradata utilities.
* Expertise in **Resource Management** using **TDQM**
* Expert in Coding **Teradata SQL, Teradata Stored Procedures, Macros** and **Triggers.**
* Involved in **full lifecycle** of various projects, including requirement gathering, system designing, application development, enhancement, deployment, maintenance and support.
* Expertise in **Query Analyzing, performance tuning and testing**.
* Hands on experience in **monitoring** and **managing** varying **mixed workload of an active data warehouse** using various tools like **Teradata Workload Analyzer, Teradata Dynamic Workload Manager and** [**Teradata Manager**](http://www.terateamuk.com/teradata_glossary_of_terms/Teradata_terms_s-z/teradata_Teradata_Manager.html)**.**
* Experience in writing **UNIX** shell scripts to support and automate the ETL process.
* Scheduled the Shell scripts through **Maestro Jobs** to kick off the Batches.
* Experience in different database architectures like Shared Nothing and Shared Everything architectures. Very good understanding of SMP and MPP architectures.
* Experience in **Oracle RDBMS Architecture**.
* Worked on **Agile methodology**.
* Extensive experience in Logical and physical modeling using **Erwin**. Hands on experience in 3NF, **Star and Snowflake** schema design and **De-normalization** techniques.
* Involved in **Unit Testing, Integration Testing** and preparing **test cases**.
* Proficient in converting **logical data models** to **physical database designs** in **Data warehousing Environment and** in-depth understanding in **Database Hierarchy, Data Integrity concepts** and **Data Analysis.**
* Developed Power **BI reports** using Power Query from SharePoint & different Data sources.
* **SSH TUNNEL**, to allow compressed log transportation.
* Experience in ETL tools like **Informatica, AbInitio.**
* **Experience with Teradata Unity system in the environment**
* **Very good understanding of Reporting tools like Cognos and Business Objects**.
* Involved in **production support activities 24/7** during on call and resolved database issues.
* Strong problem solving, analytical, interpersonal skills, communication skills and have the ability to work both independently and as a team.

**EDUCATIONAL QUALIFICATIONS**:

* **Bachelors of Technology in Computer Science, JNTU, Hyderabad, India, 2008**
* **Masters in Computer Science, University Of Central Missouri, US, 2011**

TECHNICAL ENVIRONMENT:

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| --- | --- |
| **OPERATING SYSTEMS:** | Sun Solaris 2.5, 2.6, 8, 9, 10, AIX 5.1, 5.2, Mainframes MVS, Red Hat Linux RHEL 2.1, 3.x, 4.x and Windows 95/98/NT/2000/XP. |
| **RDBMS:** | Teradata(V2R5.x/6.x/12.0/13.0/V14.0),Oracle 11g/10g/9i/8.x/7.x, Oracle 10g Real Application Clusters (RAC), SQLServer2005. |
| LANGUAGES: | SQL, PL/SQL, C#, C, C++, XML, UNIX Shell Scripting. |
| **SOFTWARE/ APPLICATIONS/ TOOLS:** | Teradata SQL Assistant, Viewpoint, BTEQ, FastLoad, MultiLoad, FastExport, TpumpORACLE 7.x/8.x/9i/10g, Real Applications Cluster (RAC), STATSPACK, ERWIN, Teradata, Clusters, EMC Storage,Trillium 7.6/6.5,Developer 2000, SQL Loader, TOAD 7.6/7.5, Oracle Enterprise Manager, Informatica, Ab Initio (Co>Operating system 3.0/2.15, GDE 3.0/1.15), Business Objects Suite. |
| **WEB TOOLS** | HTML, XML, Java Script, VB Script, JCL,Java, ASP, CGI with Perl and Java Servlets, Visual Age, Visual Cafe and Jbuilder, Apache and IIS 4.0. |

**PROFESSIONAL EXPERIENCE:**

**Cigna, Nashville, TN Jan’16 – Present**

**Role: Teradata-Informatica Developer**

**Environment:** Teradata V13/V14, Teradata SQL Assistant, Informatica Powercenter 9.6, SQL Server.

**Responsibilities:**

• Created tables, Shell Views in HealthSpring Teradata environment for the Staging, CurrentLoad and IDS layers.

• Created Views on top of the final EDW tables in order to generate the reports.

• Created a BTEQ script for pre population of the work tables prior to the main load process.

• Involved heavily in writing complex SQL queries based on the given requirements.

• Used FastLoad for loading into the empty tables.

• Created reports using BTEQ scripts reporting functionalities and FastExport for the end user.

• Used volatile table and derived queries for breaking up complex queries into simpler queries.

• Responsible for loading data into warehouse from different sources using Multiload and Fastload to load millions of records.

• Developed MLOAD scripts to load data from Load Ready Files to Teradata Warehouse.

• Performed tuning and optimization of complex SQL queries using Teradata Explain.

• Created series of Macros for various applications in TERADATA SQL Assistant.

• Created and Imported/Exported various Sources, Targets, and Transformations using Informatica Power Center 9.6.

• Implemented the concept of Slowly Changing Dimensions (SCD) Type 1 and Type 2.

• Used Active Batch to schedule the jobs from Teradata and Informatica using Windows Task Scheduler.

**Staples, Framingham, MA Jan’15-Dec’2015**

**Role: Teradata Developer**

**Environment:** Teradata V13/V14, Viewpoint, Teradata SQL Assistant, Teradata Manager, BTEQ, UNIX, SQL SERVER, SSIS, Shell scripts.

**Responsibilities:**

* Created tables, views in Teradata, according to the requirements.
* Involved heavily in writing complex SQL queries based on the given requirements.
* Created BTEQ Script with the incremental logic based on the timestamp (0).
* Created BTEQ Script to load the historical data.
* Used the unscrambled logic for a 19-digit scrambled receipt number to find out the transaction date, transaction Id, receipt code.
* Created/Enhanced Teradata Stored Procedures to generate automated testing SQLs.
* Create procedures in Teradata SQL.
* Involved creating the tables in Teradata and setting up the various environments like DEV, SIT, UAT and PROD.
* Created unit test plans to unit test the code prior to the handover process to QA.
* Involved in troubleshooting the production issues and providing production support.
* Streamlined the Teradata scripts and shell scripts migration process on the UNIX box.
* Involved in analysis of end user requirements and business rules based on given documentation and working closely with tech leads and analysts in understanding the current system.
* Collected statistics every week on the tables to improve performance.
* Developed unit test plans and involved in system testing.

**United Airlines,Chicago, IL May’13-Dec’14**

**Role: Teradata Developer**

**Environment**: Teradata V13/V14, Viewpoint,Teradata Administrator, Teradata SQL Assistant, Teradata Manager, BTEQ, MLOAD, Erwin Designer, UNIX, MVS,SQL SERVER, SSIS, Shell scripts.

**Responsibilities:**

* Created tables, views in Teradata, according to the requirements.
* Involved in the analysis and implementation of their system.
* Implemented logical and physical data modeling with STAR and SNOWFLAKE techniques using Erwin in Data Mart
* Involved heavily in writing complex SQL queries based on the given requirements.
* Performed bulk data load from multiple data source (ORACLE 8i, legacy systems) to TERADATA RDBMS using BTEQ, FastLoad, MultiLoad and Tpump
* Created and automate the process of loading using Shell Script, Multi load, Teradata volatile tables and complex SQL statements.
* Performed tuning and optimization of complex SQL queries using Teradata Explain.
* Created a BTEQ script for pre population of the work tables prior to the main load process.
* Developed MLOAD scripts to load data from Load Ready Files to Teradata Warehouse.
* Performance Tuning of sources, Targets, mappings and SQL queries in transformations
* Used FastLoad for loading into the empty tables.
* Created reports using BTEQ scripts reporting functionalities and FastExport for the end user.
* Used volatile table and derived queries for breaking up complex queries into simpler queries.
* Created an archive process that archives the data files and FTP to the remote server.
* Created a cleanup process for removing all the Intermediate temp files that were used prior to the loading process.
* Created a shell script that checks the corruption of data file prior to the load.
* Created unit test plans to unit test the code prior to the handover process to QA.
* Involved in troubleshooting the production issues and providing production support.
* Streamlined the Teradata scripts and shell scripts migration process on the UNIX box.
* Involved in analysis of end user requirements and business rules based on given documentation and working closely with tech leads and analysts in understanding the current system.
* Collected statistics every week on the tables to improve performance.
* Developed unit test plans and involved in system testing.

**Atlanta Clinical Research Centers, Atlanta, GA Feb’12-Apr’13**

**Role: Teradata Developer**

**Environment**: Teradata V12, Teradata Administrator, Teradata SQL Assistant, Teradata Manager, BTEQ, MLOAD, MVS, Erwin Designer, UNIX, Windows 2000, DB2, Shell scripts

**Clinical Data Management:**

CDM is a joint initiative between the clinical services group and IT&S of HCA to provide a venue to standardize and normalize the silos of data across the enterprise into a single clinical data warehouse with reporting, analytic and soon data exchange capabilities for the operator and leadership of the HCA facilities. The analytic capability will allow for support of the physician leader to identify opportunities to improve efficiencies and effectiveness of care as well as understand the clinicaldrivers of technology utilization and patient throughput. Additionally, it will offer HCA the ability to manage and filter individual patient populations by a variety of criteria and increase HCA awareness of operations and services to better serve these populations.  
  
**Responsibilities:**

* Developed and reviewed Extract, Transform and Load (ETL) processes programs and scripts, using Teradata, DMExpress, SSIS, SQL server, and UNIX.
* Performed the role of database developer/ETL architect using TERADATA and DM express.
* Provided guidance on strategies that minimized the implementation risks and time and/or improved the system reliability and performance.
* Performance tuning.
* Developed inpatient related reporting workbench reports and modified clinical epic released templates.
* Develop Clinical reports in Epic-Clarity during the Epic Implementation Project.
* Configuration and release management using ZEKE.
* Created tables, views in Teradata, according to the requirements.
* Involved in the analysis and implementation of their system.
* Validated all Clinical Reports and Decommissioned which are not in use.
* Performed bulk data load from multiple data source (ORACLE 8i, legacy systems) to TERADATA RDBMS using BTEQ, FastLoad, MultiLoad and Tpump
* Implemented logical and physical data modeling with STAR and SNOWFLAKE techniques using Erwin in Data Mart.
* Performed tuning and optimization of complex SQL queries using Teradata Explain.
* Created a BTEQ script for pre population of the work tables prior to the main load process.
* Used volatile table and derived queries for breaking up complex queries into simpler queries.
* Developed MLOAD scripts to load data from Load Ready Files to Teradata Warehouse.
* Performance Tuning of sources, Targets, mappings and SQL queries in transformations
* Used FastLoad for loading into the empty tables.
* Involved heavily in writing complex SQL queries based on the given requirements.
* Created an archive process that archives the data files and FTP to the remote server.
* Created reports using BTEQ scripts reporting functionalities and FastExport for the end user.
* Created a cleanup process for removing all the Intermediate temp files that were used prior to the loading process.
* Created and automate the process of loading using Shell Script, Multi load, Teradata volatile tables and complex SQL statements.
* Involved in troubleshooting the production issues and providing production support.
* Created a shell script that checks the corruption of data file prior to the load.
* Created unit test plans to unit test the code prior to the handover process to QA.
* Streamlined the Teradata scripts and shell scripts migration process on the UNIX box.
* Enhancements were done to the existing system as specified by the customer using Cobal, DB2, and JCL.
* Involved in analysis of end user requirements and business rules based on given documentation and working closely with tech leads and analysts in understanding the current system.
* Collected statistics every week on the tables to improve performance.
* Developed unit test plans and involved in system testing.

**SunTrust Bank, Atlanta, GA Aug’11-Jan’12**

**Role: Teradata Developer**

**Environment**: Oracle 8i, MS-Access, TOAD, Teradata Administrator, Teradata V2R6, Teradata SQL Assistant, Teradata Manager, SQL, UNIX and Windows NT, AutoSys.

**Responsibilities**:

* Involved in Requirement gathering, business Analysis, Design and Development, testing and implementation of business rules.
* Development of scripts for loading the data into the base tables in EDW using FastLoad, MultiLoad and BTEQ utilities of Teradata.
* Assisted DBA to Create tables and views in Teradata, Oracle database.
* Dealt with Incremental data as well Migration data to load into the Teradata.
* Have experience in tuning some batch BTEQ queries.
* Enhanced some queries in the other application to run faster and more efficiently.
* Created some data files by using FAST Export and have developed a common FTP script to port them on to the clients’ server.
* Data was extracted from Teradata, Processed/Transformed using Ksh programs and loaded into Data Mart.
* Used various Teradata Index techniques to improve the query performance
* Used BTEQ and SQL Assistant (Query man) front-end tools to issue SQL commands matching the business requirements to Teradata RDBMS.
* Modified BTEQ scripts to load data from Teradata Staging area to Teradata data mart
* Updated numerous BTEQ/SQL scripts, making appropriate DDL changes and completed unit and system test.
* Created series of Macros for various applications in TERADATA SQL Assistant.
* Responsible for loading data into warehouse from different sources using Multiload and Fast load to load millions of records.
* Performed tuning and optimization of complex SQL queries using Teradata Explain.
* Created several custom tables, views and macros to support reporting and analytic requirements.
* Performed Unit testing, System Testing and Integration testing to validate the data being staged.

**Kroger, Cincinnati, OH June’09 – Dec‘10**

**Role: Teradata Developer (Offshore from Bangalore)**

**Environment:** Ab Initio (GDE 1.13, Co>Op Sys 2.13), Teradata V2R6, UNIX, PL/SQL, Oracle 8i, IBM DB2, UNIX, Windows 2000.

**Responsibilities:**

* Extensively used Ab-Initio ETL tool in designing & implementing Extract Transformation& Load processes. Different AbInitio components were used effectively to develop and maintain the database.
* Understood the business requirements with extensive interaction with Business analysts and reporting teams, and assisted in developing the low level design documents.
* Maintained locks on objects while working in the sandbox to maintain the privacy
* Used inquiry and error functions like is\_valid, is\_error, is\_defined and string functions like string, substring, string, concat and other string\_\* functions in developing Ab Initio graphs to perform data validation and data cleansing.
* Created several packages to set up and share global variables, types and transforms which were extensively used for many Ab Initio graphs.
* Implemented a 6- way multi file system in the test environment that is composed of individual files on different nodes that are partitioned and stored in distributed directories in multifile system.
* Partition Components (Partition by Key, by \_Expression, by round Robin) were used to Partition the large amount of data file into multiple data files.
* Extensively used File management commands like m\_ls, m\_wc, m\_dump, m\_copy, m\_mkfs etc.
* Responsible for deploying Ab Initio graphs and running them through the Co-operating systems mp shell command language and responsible for automating the ETL process through scheduling.
* Involved in Comprehensive end-to-end testing.
* Worked on improving the performance of Ab Initio graphs by using Various Ab Initio performance techniques like using lookup Tables, In-Memory Joins and rollups to speed up various Ab Initio Graphs.
* Implemented phasing and checkpoint approach in ETL process to prevent data loss and to maintain uninterrupted data flow against process failures.

**GE Healthcare, Hyderabad, India Aug ’08 - Mar ‘09**

**CS-AR Delta Release**

**Role: ETL/Teradata Developer**

**Environment**: Teradata V12, Informatica Power Center 8.1.1, Cognos, Cronacle 6\_02

**Responsibilities:**

* To consolidate the AR Details for Clinical systems as per the Global Chart of Accounts. The AR Details Data will be extracted from PROD-ERP and GLPROD.
* To make enhancements to the global clinical systems account receivables reporting solution for measuring Gross AR, Aging/Past dues, Credits/Collections, Unapplied Cash consistent with P&L Structure. Make Get Paid Application data available to the end users.
* Involved in Design Part of the Project by Creating FSD & Business mapping documents.
* Requirement study and understanding business logic and prepared low level Source to Target mapping documents.
* Write BTEQ scripts for validation & data integrity between source and target databases and for report generation.
* Capture Metadata, Capacity Plan and Performance metrics for all the queries being created and Define archival strategy and provide guidance for performance tuning.
* Created and Imported/Exported various Sources, Targets, and Transformations using Informatica Power Center 8.6.
* Worked on Power Center Designer client tools like Source Analyzer, Warehouse Designer, Mapping Designer and Mapplet Designer.
* Created reusable transformations and mapplets by using Lookup, Aggregator, Normalizer, Update strategy, Expression, Joiner, Rank, Router, Filter, and Sequence Generator etc. in the Transformation Developer, and Mapplet Designer, respectively.
* Schedule jobs for ETL batch processing using Cronacle Scheduler.
* Extensively worked with the data conversions, standardizing, correcting, error tracking and enhancing the data.
* Implemented the process for capturing incremental data from source systems and move the data warehouse area.
* Involved in onsite offshore coordination and performance tuning with Informatica and database.
* Involved in Migration of objects from DEV and QA and worked with DBA to create schema instances and tables in DEV, QA & PROD.
* Created updated and maintained ETL technical documentation.
* Used to interact with third party teams like DBA and Migration teams for migrating the code to QA and PROD.
* Involved in Design, Development &Testing Phases and in scheduling of jobs using cronacle tool.