**Janardhan**

**Sr. Teradata Architect/Developer**

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**SUMMARY:**

* **9+ years** of IT experience as developer using **TERADATA ( V2R6, V12, V13, V14)**, **ETL** processes and supply chain concepts involving in all **SDLC** phases like **Business Requirements Analysis, Application Design, Data Modeling, Development, Testing and Documentation.**
* Experienced in **Teradata Database design, implementation and maintenance** mainly in large scale Data Warehouse environments, experience in **Teradata RDBMS** using **FastLoad, MultiLoad, TPump, FastExport, Teradata SQL Assistance, Teradata Parallel Transporter and BTEQ Teradata utilities**.
* Good Knowledge in **Hadoop** components **Hive, Pig**, **Mapreduce, and Spark** and expertise in performance tuning in **Teradata database, Hive and Oracle Database**
* Have very good experience in giving successful POCs for **Bigdata** replacing **Teradata** ecosystem with **Hive, Sqoop, Apache Nifi and Spark SQL.**
* Successfully managed multiple projects under **agile SDLC** stream & strategy planning stream to support modernization of client's enterprise communications architecture program.
* Hands on Experience in **Bigdata** Tools like **Pig, Hive, Sqoop, AWS S3, AWS Redshift, Google BigQuery, Spark** and **Scala**.
* Extensive experience on **SQL programming** and complex stored procedure development and provided consulting services to multiple project delivery teams in the areas of agile project management
* Strong knowledge and experience of **Teradata RDBMS** **Architecture (AMP, PE, BYNET and Data distribution/Index's/Hash).**
* Experience in developing programs in **Spark using Python** to compare the performance of **Spark** with **Hive** and **SQL/Oracle.**
* Expertise in Dimensional Data Modeling, using **Data Modeling, Star-Join Snowflake Schema Modeling, FACT & Dimensions Tables, Logical & Physical Data Modeling** using **ERWIN**.
* Expertise in Design, development, testing of **Extract, Transform and Load (ETL)** processes necessary to load and validate data warehouse using **UNIX shell scripting.**
* Strong hands on experience using utilities like **SQL, BTEQ, Fast Load, MultiLoad, FastExport, and Tpump.**
* Very Good knowledge on **Hadoop eco-system and AWS environment.**
* Experienced in developing **Teradata** databases, manipulating data and making change to dimensions in databases using **Teradata** **Utilities**, **SQL scripts** were developed for accessing data from the **Teradata tables.**
* Extensive **Tableau Experience** in Enterprise Environment and designed and developed **Informatica** Mappings, Mapplets, and Sessions, Workflows based on business user requirements and business rules to load data from source flat files and **RDBMS** tables to target tables.
* Developed **UNIX shell scripts** and used **BTEQ, Fast Load, MultiLoad, and Fast Export/TPT** utilities extensively to load to target database.
* Experience working with different file format and compression techniques to ensure optimal performance of **HIVE queries** and projected **Hadoop Vs Teradata Vs Amazon Redshift Database** comparison to Client for better usage of Project Budgets.
* Expertise in creating dashboards and reports in **Tableau**, created report schedules on **Tableau server.**
* Experienced in preparing Business reports using **Teradata SQL and BTEQ** for Business Reuirements and developed scripts using **UNIX** shell scripting to format data in **Teradata RDBMS.**
* Expertise in maintaining data quality, data organization, metadata and data profiling and hands on experience creating, converting oracle scripts **(SQL, PL/SQL) to Teradata scripts.**
* Experience working extensively in **Teradata Manager**, **ARC, BTEQ, TDADMIN, SQLA, Data Mover Teradata RDBMS, SQL, Teradata Data Modeling, Teradata** Client Utilities and Backup and Recovery Utilities Tara & DSA.
* Proficient in developing and maintaining of packages, functions, application procedures, stored procedures, indexes, using **Oracle SQL, PL/SQL** database programming language.

**TECHNICAL SKILLS:**

**Operating Systems**: Windows, OS390, Linux, UNIX

**Languages:** BTEQ, SQL, Unix/Linux Shell Script, Python

**Database:** Teradata, Oracle, DB2, SQL Server, MongoDB, HBase and PostgreSQL

**Special Software/ Tools**: Putty, SQL Assistant, View Point, TSAM, FastLoad, MultiLoad, FastExport, Tpump, TeradataSQL Assistant.

**BigData & AWS Techs:** Hive, Pig, MongoDB, HBase, AWS S3, and AWS Redshift.

**Reporting Tools:** Tableau, SSRS

**ETL Tools:** Informatica, SSIS, DataStage

**WORK EXPERIENCE**

**Sr. Teradata Architect/Developer**

**STERIS Corporation, Mentor OH, August 2016 to Present**

**Roles and Responsibilities:**

* Working with stakeholders to determine and prioritize project objectives & risks, critical success factors and extensively used Big Data technologies, having hands-on with in **Hadoop, HDFS, Scala, MongoDB, HBase, Hive, Pig and Apache Spark.**
* Analyzed, designed and implemented the **ETL architecture**, designed the **ETL mapping, Transformation logics.**
* Wrote numerous **BTEQ** scripts to run complex queries on the **Teradata** **database** and used volatile table and derived queries for breaking up complex queries into simpler queries.
* Used **Teradata** utilities like for **Teradata** **ETL** processing huge volumes of data through put **Fast Load, Fast Export, MultiLoad, Tpump** and also Involved in implementation and batch monitoring
* Created **UML Diagrams** including Use Cases Diagrams, Activity Diagrams/State Chart Diagrams, Sequence Diagrams, Collaboration Diagrams and Deployment Diagrams and **Entity Relation (ER) Diagrams.**
* Developing **SparkSQL** using **Scala** to read data from source files into **Teradata tables.**
* Worked on **Teradata SQL, BTEQ, MLoad, FastLoad, and FastExport** for **Ad-hoc queries**, and build **UNIX shell script** to perform **ETL interfaces BTEQ, FastLoad or FastExport.** Created numerous **Volatile, Global, Set, MultiSet tables.**
* Involved in Data analysis, Data model designs and Preparation of **metadata** documents for all source tables and Captured the DQ metrics using the Profiles and Created scorecards to review data quality using **IDQ**
* End-to-end performance tuning of **Hadoop** clusters and **Hadoop** **MapReduce** against very large data sets and created hive external tables on the **avro** data and data is loaded in **hive** partitions.
* Updated **Python** scripts to match training data with our database stored in **AWS Cloud Search**, so that we would be able to assign each document a response label for further classification.
* Tuned the **Hadoop Clusters** and Monitored for the memory management and for the **Map Reduce jobs,** and loaded data from various sources, pre/post-processing using Hive and created tables in our cluster.
* Data ingestion and refresh from **MySQL to HDFS** using **Apache** **Sqoop** and processing data through **Spark Core and Spark SQL**
* Migrated data from existing database to **cloud (S3 and AWS RDS) and** used **Sqoop** to Transfer Data from **Amazon EMR to Amazon RDS.**
* Create and Maintain **Teradata Databases**, **Users, Tables, Views, Macros and Stored Procedures using Teradata Administrator, SQL Assistant, SQL DDL, SQL DML, SQL DCL, BTEQ, MLoad, Fastload, FastExport, TPUMP, Statistics Index and Visual Explain** Understanding the Functional as well as Nonfunctional requirements.
* Assisted in troubleshooting the Production support problems, which are related with **Teradata database and IDQ.**
* Creating tables, importing and processing data by Hive using **Hive Query Language and Pig** using **Pig** **Latin language.**
* Export data from **HDFS** and Hive into **Teradata** using **Sqoop** and Load the data into **HBase** using **Pig** and **Hive** queries and involved in **Sqoop**, **HDFS** Put / CopyFromLocal to ingest data.
* Involved in creating the Profiles, Scorecards and add the custom Rules and Filters in **Informatica Analyst and Developer Tools.**
* Created Lambda function in **AWS** to automate to copy objects from one **S3 bucket to anther S3 bucket.**
* Extracted the data from **Teradata** into **HDFS/Databases/Dashboards** using **SPARK STREAMING and** implemented Spark using **Scala and Spark SQL** for faster testing and processing of data.
* Involved in extracting data from different source systems with different schema types and loading into **Teradata.**

**Environment:** Teradata15, Teradata 14.10, SQL Assistant 13.0, SQL Server 2016, BTEQ, IDQ 9.6.1, FastLoad, FastExport, Multiload, Tpump, MS Visio, Spark, Scala, Sqoop, View Point, MapR, AWS S3, Hadoop, Map Reduce, Hive, Pig, MongoDB, HBase, AWS, Python, Tableau, ETL Informatica, SQL, PL/SQL, UNIX Shell Scripting.

**Sr. Teradata Architect/Developer**

**Bank of America, Charlotte NC- October 2015 to July 2016**

**Roles and Responsibilities:**

* Provided architecture/development for initial load programs to migrate production databases from Oracle data marts to **Teradata** **data warehouse**, as well as **ETL framework** to supply continuous engineering and manufacturing updates to the data warehouse **(Oracle, Teradata, MQ Series, ODBC, HTTP, and HTML).**
* Used **Inner, Outer Join, UNION, INTERSECT, CUBE, RANK and OLAP** functions **CSUM, MSUM, MAVG, MDIFF** and used query tools like **TOAD, SQL Developer, Teradata Studio Express.**
* Development and deployment of new reports as well as enhancements of existing reports in **Teradata, Hadoop-Hive, UNIX Shell Scripts** and automation tool like **Autosys.**
* Analyzed user requirements and developed, tested, and tuned various scripts, procedures, and database triggers to validate data and **SQL scripts** were developed for accessing data from the **Teradata tables.**
* Developed **Bteq scripts** to load data to **Teradata** and developed **UNIX** scripts to access **Teradata**.
* Involved in performance analysis, monitoring and **SQL query** tuning using **EXPLAIN PLAN, Collect Statistics.**
* Involved in Writing the **Hive queries and Pig script** files for processing data and loading to **HDFS** internally.
* Coding using **Teradata**Analytical functions, **BTEQ SQL** of **TERADATA**, write **UNIX scripts** to validate, format and execute the **SQLs on UNIX environment.**
* Extracted data from flat files and TD database, applied business logic to load them in the central **Teradata database** and created action filters, parameters and calculated sets for preparing dashboards and worksheets in **Tableau**.
* Wrote **Lambda** functions in python for **AWS's** **Lambda, Kinesis** and **Elastic** Search which invokes python scripts to perform various transformations and analytics on large data sets in **AMAZON EMR clusters.**
* Responsible for exporting the processed **Hive** data to downstream Analytics systems and transformed data by using **Scala** in **Spark** environment
* Extracting data from different sources connecting them and used the same to create dashboard and wrote Case Expressions, Data Manipulation Command by using **Teradata (BTEQ)**
* Created numerous Volatile, Global, Set, MultiSet tables, Used Basic Teradata Query utility for reporting Purpose and developed Basic **Teradata Query (BTEQ) for Interactive & batch queries.**
* Involved in doing Coding & development using the **Shell Scripting**, **Map Reduce (Hadoop) and Teradata SQL.**
* Designed and developed **Informatica Mappings, Mapplets**, and Sessions, Workflows based on business user requirements and business rules to load data from source flat files and **RDBMS tables** to target tables.
* Used transformations like **Match, Expression, lookups, Filter, Aggregator, Merge and Sequence generator** and performed in depth analysis in data & prepared weekly, biweekly, monthly reports by using SQL, Ms Excel.
* Developed scripts to import raw data from **Teradata** to export to **HDFS** and **Hive** using **SQOOP**.
* Worked in migrating **Hive QL** into **Impala** to minimize query response time and worked on **Spark SQL** and Data frames for faster execution of **Hive** queries using **Spark Sql Context.**
* Built the Operational data store by using **BTEQ, Teradata, Oracle, SQL, and UNIX** and involved in creating complex **SSIS** packages using proper control and data flow elements.
* Writing complex **SQL Queries, Stored Procedures, Triggers**, and User Defined Functions to implement the business logic.
* Use **Sqoop** to import data from **DB2, Teradata to Hadoop** and redesign **DB2** and **Teradata** Schemas as **Hive Tables.**
* Created Lambda function in AWS to automate to copy objects from one S3 bucket to anther S3 bucket. Developed **UNIX shell scripts** and used **BTEQ, Fast Load, MultiLoad, and Fast Export/TPT** utilities extensively to load to target database.
* Prepared custom shell scripts for connecting to **Teradata** and pulling the data from **Teradata** tables to **HDFS**.

**Environment:** Teradata14, Oracle, BTEQ, FastLoad, Sql Server 2014, SSIS, Multiload, Korn Shells, View Point, IDQ 8.6, Tableau, Informatica, SQL, Python, PL/SQL, Sqoop, Hadoop, AWS, Lambda, AWS EMR, Hive, PIG, MapReduce, MongoDB, HBase, AWS, DB2, UNIX shell Scripting.

**Sr. Teradata Developer**

**TSYS, Columbus GA - January 2013 to August 2015**

**Roles and Responsibilities:**

* Responsible for gathering requirements from Business Analysts and Operational Analysts and identifying the data sources required for the requests and involved in importing/exporting large amounts of data from files to **Teradata and vice versa.**
* Performed bulk data load from multiple data source **(ORACLE, legacy systems) to TERADATARDBMS using BTEQ, Fastload, Multiload and TPump.**
* Developed the **DW ETL** scripts using **BTEQ**, Stored Procedures, Macros in **Teradata**
* Development of scripts for loading the data into the base tables in **EDW** using **FastLoad, MultiLoad and BTEQ** utilities of **Teradata.**
* Created numerous scripts with **Teradata** utilities **BTEQ, MLOAD and FLOAD** and highly experienced in Performance Tuning and Optimization for increasing the efficiency of the scripts.
* Developed processes on both **Teradata** and **Oracle** using shell scripting and **RDBMS** utilities such as **Multi Load, Fast Load, Fast Export, BTEQ (Teradata) and SQL\*Plus, SQL\*Loader (Oracle).**
* Handled workload management using Priority Scheduler & **Teradata** Dynamic Query Manager and **Teradata Manager** and used Joins like Inner Join, Outer join while creating tables from multiple tables.
* Designed and developed **Teradata** **Fast export** scripts to generate output files for the third party vendor requirement.
* Developed reports using the **Teradata** advanced techniques like rank, row number and communicated with business users and analysts on business requirement, gathered and documented technical and business **Metadata** about the data.
* Involved heavily in writing **complex SQL queries** to pull the required information from Database using **Teradata SQL Assistance.**
* Used **BTEQ and SQL Assistant (Query man)** front-end tools to issue **SQL** commands matching the business requirements to **Teradata RDBMS.**
* Performed tuning and optimization of complex **SQL queries** using **Teradata** explain and Created series of Macros for various applications in **TERADATA SQL Assistant.**
* Involved in performance tuning and optimization of long running jobs/quires using features like partitions and data/index cache to manage very large data volume
* Worked on Data Verifications and Validations to evaluate the data generated according to the requirements is appropriate and consistent and also involved in generating graphs using **MS Excel Pivot tables.**
* Created **Teradata SQL** scripts using **OLAP** functions like **RANK ()** to improve the query performance while pulling the data from large tables.
* Tested the database to check field size validation, check constraints, stored procedures and cross verifying the field size defined within the application with **Metadata**.
* Experienced in using **OLAP** functions like **sum, count, csum** and etc. and designed and developed weekly, monthly reports related to the marketing and financial departments using **Teradata SQL**.
* Involved in Power Point Presentation (Financial Data, Charts) and extracted data from existing data source, Developing and executing departmental reports for performance and response purposes by using oracle SQL, MS Excel and extracted data from existing data source and performed ad-hoc queries.

**Environment:** Teradata12, Teradata13, SQL Assistant 12.0, CAS, Oracle, Business Objects, BTEQ, FastLoad, FastExport, Multiload, Korn Shells, View Point, SQL, PL/SQL, Informatica, Tableau, SSRS.

**SQL Developer/Teradata Developer**

**Infinite Solutions - Bangalore, Karnataka - August 2010 to December 2012**

**Roles and Responsibilities:**

* Interact with business to collect critical business metrics and provide solution to certify data for business use
* Extensively used cursors and temp tables to load each row from legacy to application database and developed stored procedure to load data from legacy to the **MS SQL Server.**
* Used Performance Monitor and **SQL Profiler** to optimize queries and enhance the performance of database servers.
* Improved the performance of the slow **SQL queries** by implementing indexes, using **FORALL, BULK COLLECT** and developed various procedures, functions and packages to implement the new business.
* Developed **SQL** for loading **Metadata** from **Excel** spread sheet to the database using **SQL Loader.**
* Extensively used **PL/SQL** to implement cursors, triggers and packages and designed and developed **Teradata** sorted procedures to extract data from various systems and load the data into target environment in a specific format.
* Involved in bulk data loading using **SQL\*Loader** calling **UNIX scripts** to download and manipulate files.
* Design and Developed DTSX packages to extract, transform and load into the Campaign database from **OLAP** cubes and various Cosmos streams using of**SQL Server Integration Services (SSIS)**
* Designed and developed **Teradata Bteq** export scripts to generate output files for the third party vendor requirement
* Interacted with **Teradata** Excellence team for creation of required indexes on **Data Warehouse tables.**
* Created and Configured **OLAP** Cubes (Star Schema and Snow Flex Schema) using **SQL Server Analysis Services (SSAS)**
* Performed **SQL and PLSQL** tuning and Application tuning using various tools like **EXPLAINPLAN, SQL\*Trace and TKPROF.**
* Developed complex **SQL queries** to perform the back end testing of the Oracle database using **SQL and UNIX shell commands.**
* Created detailed documentation using Data Flow diagrams, rule-sets/thresholds, and **ETL mappings** Involved and worked autonomously to provide solutions relative to ad hoc analysis and ad hoc **SQL queries.**
* Involved in developing Extraction-Transformation-Loading (**ETL**) process, using **SQL\*Loader** and **PL/SQL** package UTL\_FILE.
* Created reports as per user requirement using **SQL Server reporting services (SSRS)** which delivers enterprise and Web-enabled reports.
* Developed various **T-SQL** stored procedures triggers, views, and adding/changing tables for data load and transformation, and data extraction.

**Environment:** Teradata, UNIX, MS SQL Server, PL/SQL, Teradata utilities – BTEQ, SQL, T-SQL, SSIS, SSRS, ETL, Metadata.

**SQL Developer**

**BGIT - Bangalore, Karnataka - Dec 2008 to July 2010**

**Roles and Responsibilities:**

* Responsible for creating and scheduling the jobs to run store procedures and SSIS packages on daily manner to automate the loading process by using **SQL Server Agent**, adding new steps to the existed jobs in the **SQL server agent.**
* Created Packages, stored procedures, queries, and triggers on **Oracle** and Involved in the creation of Table design.
* Created databases and tables based on **Entity Relationship Model (ERM)**
* Created new database objects like Functions, Procedures, Packages, Triggers, Views, and Indexes using **T-SQL in SQL Server 2005.**
* Administering **MS- SQL Server**, performing day-to-day tasks such as Database tuning by checking indexes.
* Designed rich dashboards with **Power BI** and prepared user stories to create compelling dashboards to deliver actionable insights
* Created SSIS packages to Export data from text file to **SQL Server Database** and Designed and implemented stylish report layouts in **SSRS**.
* Migrated and recreated existing Dimensions and Cubes using Star schema on Server to achieve efficiency of **SQL Server Analysis (SSAS)**
* Developing **T-SQL queries**, triggers, functions, cursors and stored procedures and responsible for logical and physical design of **SQL Server databases.**
* Able to install, upgrade and configure **Microsoft SQL Server and Oracle Databases.**
* Extensive knowledge in RDBMS concepts, logical/physical data models, indexes.
* Extensively used Joins and sub-queries for complex queries involving multiple tables from different databases.

**Environment:** Oracle, Microsoft SQL Server, SQL, T-SQL, SSAS, SSRS, SSIS.