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| **SANDEEP MAGANTI**Teradata Developer Phone: 908-509-1956  Email: [sandeepmaganti6@gmail.com](mailto:sandeepmaganti6@gmail.com) | ` |

**PROFESSIONAL SUMMARY**

Overall **7**years of I.T experience in Finance and Tele Communications sectorwith proficiency in **Data Warehousing** concepts,**Teradata**and **Oracle Databases**,and used **AbInitio and Informatica**as **ETL tools** to cleanse and process the data.

* Experienced in all aspects of **SDLC** (Software Development Life Cycle) such as Analysis, Gathering Requirements, Planning and Development, Testing, Implementation and Post-production phases and extensive knowledge of the principles and best practices in Agile, Scrum, and Waterfall methodologies.
* Strong knowledge on Data warehousing concepts, **Relational database concepts**, **Entity Relation Diagrams**, **Normalization** and **De Normalization** Concepts.
* Worked extensively with slowly changing dimensions. Had experience in working with both 3NF and dimensional models for data warehouse and good understanding of **OLAP** and **OLTP** systems.
* Knowledge of different Schemas (Star and Snow Flake) to fit reporting, query and business analysis requirements.
* Experience in working with AWS environment and integration of Hadoop Ecosystem using Hive, AWS S3 bucket and Redshift etc.
* Strong experience in Extraction, Transformation and Loading (ETL) data from various sources into Data Warehouses and Data Marts using **Informatica Power Center** (Repository Manager, Designer, Workflow Manager, Workflow Monitor, Metadata Manger), Power Exchange, Power Connect as ETL tool on Oracle, DB2 and Teradata Databases.
* Experience working on Informatica transformations like **Normalizer, Lookup, Source Qualifier, Expression, Aggregator, Sorter, Rank and Joiner**.
* Extensively used the AbInitio components like **Reformat, Join, Partition by Key, Partition by Expression, Merge, Gather, Sort, Dedup Sort, Rollup, Scan, FTP, Lookup, Normalize** and **Denormalize**.
* Good knowledge on **Ab Initio** SANBOX and Graphs parameters to develop generic graphs.
* Experiences in using various Ab Initio parallel processing components such as **Partition by Key, Round Robin, load balance, rage, gather, interleave, merge**.
* Worked extensively as the Teradata Developer and involved in the building of Teradata Warehouse.
* Worked extensively on **Teradata SQL Assistant**. Developed **BTEQ** scripts to Load data from Staging area to Data Warehouse and then loaded to data marts based on reporting requirements. Tuned the existing BTEQ scripts to enhance the performance.
* Experience in **performance tuning** and various ways of optimizing query using **Collect statistics**, **Explain plan**, and **Indexing mechanism**.
* Experience in using Automating jobs in production using Scheduling tools like **Autosys**, **Control-M** and **Tivoli**, setting the dependencies to the jobs and implementing the business changes to the existing jobs.
* Experience in writing **UNIX** shell scripts in automation of the ETL processes.
* Strong Hands on Teradata Tools such as **SQL, BTEQ, MLOAD, FLOAD, TPUMP** and **FAST EXPORT**.
* Proficient in the Integration of various data sources with multiple relational databases like **Oracle11g /Oracle10g**/9i, **MS SQL Server**, **DB2**, **Teradata**, VSAM files and Flat Files into the staging area, ODS, **Data Warehouse** and **Data Mart**.
* Good knowledge on the Hadoop concepts like **HDFS**, **Pig**, **Hive**, **Scala**, **Impala** and**Sqoop**
* Worked with different tools to track and resolve issues using **Remedy**, **HP QC** and **IBM ClearQuest**.
* Worked with Production/Ops team daily and attended status calls and documented the **RCA** (Root Cause Analysis) for the issues in the production environment
* Flexible in working hours and can give support outside of business hours, a quick learner who can adapt to new technologies.

**Technical Skills**

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| Databases | Teradata 13.10/14.00/14.10,OracleDatabase11g/12c, MS SQL 2007/2005, IBM DB2. HDFS |
| ETL | Ab Initio, Informatica |
| Version Control Tools | GIT, SVN |
| Operating System | Windows, Linux/Unix (Red Hat, Ubuntu, AIX, SUSE Linux) |
| Bug Tracking Tools | Remedy, JIIRA, IBM Clear Quest |
| SDLC Processes | Agile, Scrum, Waterfall |
| Scripting Language | Shell, Python |
| Cloud Engineering | AWS – [EC2, S3, Glacier, ELB, RDS, SNS, SWF, VPC, IAM and EBS], VMWare |
| Configuration Mgmt | Puppet 3.8, Chef, Vagrant, Ansible 1.9/2.0, Docker, Jenkins, Hudson, |

**Professional Experience**

**Zurich Insurance, Plantation, Florida** Sept 16 - present

**Teradata Developer**

* Gathered and Analyzed business requirements and identified the business rules and responsible for development, support and maintenance for the ETL process using **Informatica Power Center** and loaded data into the Warehouse.
* Extracted data from heterogeneous sources like databases **Oracle**, **DB2** and **XML**, Flat files and validated and cleansed in staging area before loading into Data Warehouse using **Teradata Utilities**&**Informatica**.
* Transformations are made using expression transformations **Lookups**, **Expression**, **Filter**, **Sorter**, **Aggregator**, **Joiner**, **Rank**, **Sequence Generator**, **Union** and **Update Strategy** transformations in the mappings.
* Developed **InformaticaSessions**, **Workflows** for the several mappings and executed the workflows to process the data into the Data marts.
* Tuned the graphs for the better performances by analyzing the data flows, **transformations** and identified the **performance issues** in the mappings and resolved the issues and involved in the upgradation of Informatica versions.
* Implemented daily loads, weekly loads, and quarterly loads and on demand load using Incremental loading strategy and concepts of **Change Data Capture** (CDC).
* Implemented **Slowly Changing Dimensions** (Type I and Type II) for customer Dimension table loading.
* Coordinated with the reporting teams and assisted them for their reports made on the data from Data Marts.
* Worked with **AWS data pipeline**.
* Created **pre/post session** commands and SQLs to perform tasks before and after the sessions.
* Build a re-usable staging area in **Teradata** for loading data from multiple source systems using template tables.
* Implemented parallelism in loads by partitioning workflows using Pass-through partitions and worked with **Teradata View point** for monitoring Workload management.
* Converted the data mart from **Logical design** to **Physical design**, defined data types, **Constraints**, **Indexes** and generated **Schema** in the Database,also created Automated scripts, defined storage parameters for the objects in the Database.
* Created **Star Schema** model with the required **facts** and **dimensions** as per the design. Also, defined various facts and Dimensions in the data mart like Factless Facts, Aggregate and Summary facts.
* Wrote code using Teradata Analytical functions, **BTEQ**, Teradata Parallel Transport utility (**TPT**) coding, wrote **UNIXscripts** to validate and format the data and execute the SQLs on UNIX environment.
* Reduced **Teradata space** utilized by optimizing tables which includes adding **compression** where appropriate and ensuring optimum column definitions.
* Designed, created and tuned **physical database** objects (tables, views, indexes, PPI, UPI, NUPI, and USI) to support normalized and dimensional models. Maintained the referential integrity of the database.
* **Performance tuning** for the OLAP queries is done by different methods like **Colleting Stats**, **Indexing** and used **volatile** and**derived** tables to break up the complex queries.
* Involved in the migration of Teradata to **HDFS** and designed **sqoop** jobs to read and load the data into Warehouse.
* Developed the Hadoop **Hive** queries to load the data into the HDFS tables and used Pig for the data Cleansing in HDFS.
* Used **GIT** to maintain the different versions of the code in the development phase.
* Performed **Unit testing**, **UAT** to check for data loads in target from different sources to meet client requirements.
* Participated in daily **status call** from my team and worked on resolving the issues raised HP Quality Center by the testing team.
* Participated in multiple meetings with the client and architects during new requirement gathering phase and proposed better strategies to improve the performance.
* Provided support for the applications after production deployment to take care of any **post-deployment** issues.

**Environment:** Informatica Power Center, Teradata, SQL Assistant, Teradata utilities - TPT, BTEQ, Fastload, FastExport, MLoad, Viewpoint, Oracle, DB2, HDFS, Hive, AWS, Pig Putty, Remedy, Control-M, Tivoli, HP Quality Center,Putty

**Sprint Corporation, Overland Park, Kansas** Aug 15 – Aug 16

**Teradata Developer**

* Developed and executed **ETL** packages to convert client data using **stored procedures**, **functions** and **SQLscripts** in a Teradata environment.
* Extracted data from external and internal homogeneous and heterogeneous sources, integrated data from **flat files**, **Oracle**, **SQLserver** sources and loaded to staging area and database/Datamart tables.
* Collaborated with team members, customers, developers, analysts, DBAs in the creation of analytical solutions.
* Designed and developed **Ab Initio Graphs** based on the Business Requirements to **extract**, **transform**the data based on the complex business process rule and loaded the data into the **Warehouse**.
* Used various components to develop the ETL transformation logic like**Partition by Key**, **Sort**, **Partition by Expression/ Round Robin**, **Filter by Expression**, **Reformat**, **Gather**, **Redefine**, **Replicate**, **Scan**, **Denormalize**, and **Normalize**.
* Using AWS EMR, Implements the step execution with custom jar and pull the data from Input folder inside S3, Utilize the Jar file and execute it to store the output value in S3 bucket.
* Developed **Generic Batch graphs** and **Continuous flows** and created parameter sets(**psets**) to run the batch graphs to validate and process the various set of incoming files.
* Build **tables**, **views**, and created different **indexes** UPI, NUPI, USI and NUSI on tables.
* Wrote Teradata **Macros** and used various Teradata analytic functions.
* Wrote, tested and implemented Teradata **Fastload**, **Multiload** and **BTEQ** scripts to transform and export data.
* **Query optimization** using **Explain plans**, **Collect statistics**, **Primary and Secondary indexes**.
* Extensively worked in the **performance tuning** of transformations, Sources and Targets.
* Involved in the logical and physical design of the database and creation of the **Database Objects**.
* Involved in migration projects to migrate data from data warehouses on **Oracle/DB2** and migrated to **Teradata**.
* Performance tuned and **optimized** various **complex SQL queries**.
* Daily duties including transferring and converting data from one platform to another to be used for further Analysis.
* Worked with **high volume datasets** from various sources like Oracle, Text Files and xml targets.
* Used **GIT** as the version control to maintain the different versions of the code in Teradata.
* Wrote many UNIX scripts to automate the tasks of running the ETL jobs.Widely used batch scripting in **Unix** to support **ETL** and **BTEQ** scripts.
* **Documented the issues** resolved during the different phases like development and post production.

**Environment:**Teradata, SQL Assistant, Teradata utilities - BTEQ, Fastload, MLoad, AWS, Oracle**,** Ab Initio Graphical Development Environment(GDE), Oracle, SQL, Oracle Business Intelligence, Putty.

**LeggMason, Stamford, Connecticut** Nov 14 – Jul 15

**Informatica/Teradata Developer**

* Created **mappings** using different components like **Source Qualifier**, **Expression Transformation** and **Target** to cleanse the input data.
* Coordinated with Subject Matter Expert (SME) for technical clarifications and involved in the design phase of Data Warehouse
* Worked extensively on **BTEQ** scripts to load large volumes of data into **Enterprise Data Warehouse** (EDW).
* Used different sources like **Flat files**, **Teradata tables** and integrated data into Enterprise Data Warehouse.
* Loaded data into some of the X-ref tables.
* Loaded data in to **Landing Zone** (LZ) Teradata tables, applied transformations and then loaded the data in to **Conformed Staging Area**(CSA).
* Extensively used the **Workflow Manager** tasks like **Session**, **Event-Wait**, **Timer**, **Command**, **Decision**, **Control** and **E-mail**while creating worklets/workflows.
* Worked on **Performance tuning** for Informatica Mappings and Teradata using several techniques.
* Used **Teradata SQL Assistant** as a Productivity tool for the Teradata Database.
* Performance tuning of Teradata SQL queries using various techniques by **collecting stats**, analyzing the **explain plan** and made the necessary changes for the better performance.
* Used **Fast Load** and **Multi Load** utilities to insert data into Teradata Tables from the Load Ready files.
* Developed **shell scripts** to parameterize the date values for the incremental extracts
* Loaded data from **CSA** to **EDW** by cross referencing the RDM codes.
* Using AWS EMR, Implements the Spark/Hadoop cluster to assign SSH protocol to master node and access the Hadoop commands, Hive Tables (Hive Shell), Spark-shell etc.
* Used different Utilities like **BTEQ**, **Fast Export** and **Multi load** to load and unload the data into tables.
* Unit Test Cases were developed with different scenarios and Coordinated with **System IntegratedTesting** team for testing different scenarios.
* Participated in **User meetings**, **gathered requirements** and translated user inputs into **Technical SpecificationDocuments** and elicit and refine the business requirements.
* Guided offshore team on deliverables and daily activities and reviewed the code and assigned tasks to offshore team through Work Break Down Structure (WBS).
* Translated and Reviewed BRD/BSD in to Technical Specifications Design (TSD) and Developed TSD for VA Claims track.

**Environment:** Informatica Power Center 8.6.1/8.5, Teradata 12.x, Erwin, AWS, BTEQ, Enterprise Architect, Meta data Manager, ER studio, Windows NT/2000, HP-Unix, WLM.

**IBM, India** Dec 12 - Oct 14

**Ab Initio/Teradata Developer**

* Worked for almost two years for the client **Vodafone Netherlands** to transform their data as per the requirements and load to the **Data Warehouse**.
* Worked in the team of two and developed a module to **extract** data from a source table with the help of **dbc** file, transformed as per **business logic** and loaded into the **warehouse** with taking backup at every point needed.
* Responsible in delivering the code before deadlines and responsible to get the code approved by the client.
* Worked in**Linux** environment and **build scripts** to automatetasks like environment cleanup and **archivinglogs**.
* Developed Parameter Sets(**psets**) to execute the **AbInitio** graphs from the Linux environment.
* Responsible in solving the issues raised by Testing team to fix the code and if required to **enhance** for the **better performance**.
* Worked with the different format of files like **xml, flat files**, **tables**. Also, handled **real time events** from **CRM** and **OMS** sources.
* Later worked in Production Support Environment to handle the **real-time issues** in production.
* Transformed and **processed** the **daily delta feeds** of customer’s data to various targets which is later used for reporting purpose.
* Good Knowledge on the concepts of **Sand box**, **EME** for **check in**&**checkout** process and extensively used **air** commands for **check-in and checkouts**.
* Used **Teradata** as the target **Warehouse** and performed basic operations on Teradata to verify the loaded data.
* Modified the **existing procedures** based on the client requirements
* Involved in **performance tuning** and **optimized** various **complex SQL queries** for faster user query performance.
* Created **Views** for various tables based on the user and reporting requirements.
* Worked **under pressure** to **resolve** the **issues** in very less time frame in **production environment** to avoid the roadblock to process production data.
* Should perform **RCA** (Root Cause Analysis) for high level severity issues and must submit the analysis to the client.
* Also, responsible to take up the tickets raised by client in **Clear Quest** (QA tool) and resolved before the deadline.
* Participated in status calls every morning and must update the status to the clients.
* Created and scheduled **Cron** Jobs such as for **Backup**, **System Monitoring** and removal of unnecessary files.
* Updated the runbooks for various source codes for **deployment** and follow-up the **release management**.

**Environment:**AbInitio GDE(Graphical Development Environment), Teradata SQL Assistant,Putty,Oracle, Putty, Cron, IBM Clear Quest, Remedy, HP Quality Center, Tivoli

**RS Software, India** May 11 – Nov 12

**System Engineer**

* Worked in the **Data Management** Team on **Data Extraction**, Subset, Data **Cleansing** and Data **Validation**.
* Involved in the creation of **AbInitio graphs** that transforms data from various sources like **Oracle,flat files**, **CSV** and loads into Teradata database and flat files.
* Worked on **Multi File Systems** with extensive parallel processing.
* Implemented **Lookups** instead of **joins, in-memory** sorts to improve the performance while dealing with huge volumes of data.
* Extensively used Partitioning Components: **Broad Cast**, **partition by key**, **partition by Range**, **partition by round robin** and **De-partition** components like **Concatenate**, **Gather** and **Merge** in Ab Initio.
* Used different Transform Components such as **Dedup Sort**, **Filter by Expression**, **Join**, **Normalize**, **Reformat**, **Rollup** and **Scan** Components based on the requirements.
* Used **Lookup** Transformation in validating the warehouse customer data.
* Performed bulk data load from multiple data source (legacy systems) to Teradata.
* Used **Teradata SQL Assistant** front-end tool to issue SQL commands based on business requirements in Teradata.
* Involved in creating the **mappings** based on ETL design document.
* Worked closely with the end users in writing the functional specifications based on the business needs.
* Participated in project review meetings.
* Worked on **performance tuning** of **AbInitio** Graphs to reduce the process time.
* Worked with ETL tools such as Informatica, AbInitio to load data to Teradata by making various connections to load and extract data to and from Teradata efficiently.
* Wrote **shell scripts** to automate small tasks like cleanup, identify the most CPU consuming jobs.
* Involved in the application design, development, maintenance and support for the applications and documented the resolution for the issues.

**Environments:**Ab Initio Co-Operating system 3.0.2,Informatica Power center, Linux, SQL Assistant, HP Quality Center,Teradata SQL Assistant

**Renault, India** Jun 10 – Apr 11

**Jr. Teradata Developer**

* Involved in the discussions for the mappings to populate the target table.
* Loaded Data files, Flat Files and **Load readyfiles** to the Teradata Database using **Multiload utilities**.
* Performed Data Quality checks on the source systems.
* Moved data from **Landing Zone** to the **Staging database** using the **BTEQ** scripts
* Involved in creating **Views**, **Macros** for the base tables to provide the limited access to the reporting teams.
* Analyzed the high memory utilizing processes and fine-tuned them by creating **Join indexes** and several other techniques.
* Involved in the team which is responsible for the **Designing**, **loading** and **maintainingOLAP** which is basically used for the reporting purposes.
* Wrote the **unit test cases** for the **developedcode** and documented them and provided to the testing team.
* Resolved the faults raised by the testing team **in HP Quality Center**.
* Involved while deploying the code into the production and executed trail run in the production systems.
* Later, involved in the **Production Support** team to give **supportround the clock** on a rotation basis.
* Applied some **patches** to the **existing production code** as per the changing requirements.
* Used **Remedy** as the bug tracking tool and updated the tickets with the solutions.
* Monitored the production jobs in **Tivoli**.
* Responsible to resolve the low-level tickets and if any data issues, raised to the data team.
* Wrote small **shell scripts** in **unix** to perform the maintenance tasks to clean up the unwanted files.
* Attended the status call daily and updated the status of the tickets to the client.

**Environment:** Teradata 13.10, HP Quality Center, Putty, Unix, Remedy, Tivoli

**EDUCATION:**

Bachelors of Technology in Computer Science at Amrita Vishwa Vidyapeetham in Bangalore, India.