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

**Professional Summary**

* Overall **7** years of I.T experience with proficiency in **Data Warehousing** concepts, **Teradata**, **Ab Initio and Informatica.**
* Experienced in all aspects of **SDLC** (Software Development Life Cycle) such as Analysis, Gathering Requirements, Planning and Development, Testing, Implementation and Post-production phases.
* Experienced with software development life cycle (SDLC), **Agile**, **Scrum** and Project Management Methodologies.
* 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.
* 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 Ab Initio 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.
* Experienced in **performance tuning** and various ways of optimizing query using **Collect statistics**, **Explain plan**, and **Indexing mechanism**.
* Experienced 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.
* Experienced in writing **UNIX** shell scripts in automation of the ETL processes using UNIX shell scripting.
* 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**
* Regularly evaluate processes and make recommendations to improve efficiency.
* Strong ability in troubleshooting the issues that occur while building, deploying and in production support.
* Worked with different tools to track and resolve issues using **Remedy**, **HP QC** and **IBM Clear Quest**.
* 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**

Databases : Teradata 13.10/14.00/14.10, Oracle Database 11g/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**

* Involved in the analysis of business requirements and identified the business rules and responsible for development, support and maintenance for the ETL process using **Informatica Power Center**
* 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.
* Developing Informatica ETL Mappings, Sessions, Workflows to load different sources of data from flat files and Oracle tables to Target Oracle database
* Extensively used various Data Cleansing and Data Conversion functions like **LTRIM, RTRIM, TO\_DATE**, Decode, and functions Transformations.
* Used several available expression transformations **Lookups**, **Expression**, **Filter**, **Sorter**, **Aggregator**, **Joiner**, **Rank**, **Sequence Generator**, **Union** and **Update Strategy** transformations while creating the sessions.
* Tuned the graphs for the better performances by analyzing the data flows, transformations and identified the performance issues in the sources.
* Involved in Performance tuning and analyzing the applications and data profiling and upgrading of Informatica from one version to another.
* Implemented various loads like 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.
* Worked with the unix scripts to schedule the jobs by communicating with the Ab Initio server.
* Worked with reporting team in helping with EDW data for their reports using Business Objects
* Also, involved in **support** environment to support 24 \* 7 by rotation system and had strong grip in using scheduling tool Tivoli
* 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.
* 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..
* Also, had a hands on in using Pig for data cleansing
* Performed **Unit testing**, **UAT** to check for data loads in target from different sources to meet client requirements.
* Used **GIT** to maintain the different versions of the code in the development phase.
* 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.
* Created **UNIX korn shell** scripts to kick off Informatica workflow in batch mode.
* Participated in daily **status call** from my team and worked on resolving the issues raised HP Quality Center by the testing team.

**Environment:** Informatica Power Center, Teradata 14.10, Oracle, DB2, HDFS, Hive, Pig Putty, Remedy, Control-M, Tivoli

**Sprint Corporation, Overland Park, Kansas**

**Aug 15 – Aug 16**

**Teradata Developer**

* Guided offshore team on deliverables and daily activities and reviewed the code.
* 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.
* Coordinated with Subject Matter Expert (SME) for technical clarifications.
* 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.
* Participated in User meetings, gathered requirements and translated user inputs into Technical Specification Documents.
* Guided Off Shore Team with Business and Development Issues.
* Worked on Performance tuning for **Informatica Mappings** and **Teradata** **Components**.
* Used **Teradata SQL Assistant** as a Productivity tool.
* Performance tuning of Teradata SQL queries using various techniques.
* Used Fast Load and Multi Load utilities to insert data into Teradata Tables.
* Transferred data from one server to the other server by using Arc Main utility.
* Worked closely with the business users to elicit and refine business requirements.
* Worked on Analyzing the source systems before starting the development.
* Developed shell scripts to parameterize the date values for the incremental extracts
* Loaded data from CSA to EDW by cross referencing the RDM codes
* Fast Export and Multi Load utilities are included in BTEQ scripting to extract the data.
* Worked highly on **Informatica 8.6.1** to extract the data and load it into **Landing Zone**.
* Coordinated with System Integrated Testing team for testing different scenarios
* **Unit Test Cases** were developed with different scenarios.
* Designed Teradata LZ tables with appropriate Primary index

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

**LeggMason, Stamford, Connecticut**

**Nov 14 – Jul 15**

**Teradata Developer**

* Developed and executed ETL packages to convert client data using stored procedures, functions and SQL scripts in a Teradata environment.
* Involved in the development of mappings and transformations using **Ab Initio GDE.**
* Widely used batch scripting in Unix to support **ETL and BTEQ** scripts.
* 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.
* Designed and developed **Ab Initio** Graphs based on the Business Requirements and transformed data based on the complex business process rules.
* Developed graphs using **Ab Initio** for extracting, transforming, and loading (ETL) data from heterogeneous sources into a data warehouse.
* Prepared ETL strategies for extracting data from different data sources.
* Used various components **Partition by Key,** **Sort**, **Partition by Expression/ Round Robin**, **Filter by Expression**, **Reformat**, **Gather**, **Redefine**, **Replicate**, **Scan**, **Denormalize**, **Sorted** and **Normalize** components to develop the ETL transformation logic.
* Worked on reusable sources, targets, transformations, mappings, sessions etc.
* Developed generic graphs and developed various parameter sets to validates and process all the various set of incoming files.
* **Query optimization** using explain plans, collect statistics, Primary and Secondary indexes.
* Extensively worked in the performance tuning of **transformations**, Sources and Targets.
* Extracted data from external and internal homogeneous and heterogeneous sources, integrated data from flat files, **Oracle**, **SQL** **server** sources and loaded to staging area and database/**Datamart** tables.
* Involved in the logical and physical design of the database and creation of the **Database Objects**.
* Oversaw and managed team resources to ensure deliverables met business requirements and deadlines
* Involved in migration projects to migrate data from data warehouses on Oracle/DB2 and migrated to Teradata.
* Collaborated with team members, customers, developers, analysts, DBAs in the creation of analytical solutions.
* 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.
* Worked with **Pre-Session** and **Post-Session** UNIX scripts for automation of ETL jobs. Also, involved in migration/conversion of ETL processes from development to production
* Extensively worked on SQL Assistant and wrote complex SQL Queries using joins, and subqueries.
* 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.

**Environment:** Teradata, Ab Initio, Oracle, SQL, Oracle Business Intelligence.

**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 automate tasks like environment cleanup and archiving logs.
* Also, developed Parameter Sets to execute the **Ab Initio** 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:** Ab Initio, Putty, Oracle, Teradata, RHEL, Cron, IBM Clear Quest

**RS Software, India**

**May 11 – Nov 12**

**System Engineer**

* Involved in application design, **development** and **project maintenance** of applications critical to the enterprise.
* Worked in the **Data Management** Team on **Data Extraction**, Subset, **Data Cleansing** and **Data Validation**.
* Involved in the creation of **Ab Initio 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 Sorted**, **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 Ab Initio Graphs to reduce the process time.
* Worked with ETL tools such as **Informatica**, **Ab Initio** 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 maintenance and support for the applications and documented the resolution for the issues.

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

**Renault, India**

**Jun 10 – Apr 11**

**Jr. Teradata Developer**

* Involved in the discussions for the mappings to populate the target table.
* Involved in Loading the Data files, Flat Files and Load ready files 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 maintaining **OLAP** which is basically used for the reporting purposes.
* Also, wrote the unit test cases for the developed code 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 support round 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 .