**Harish Mamidi**

**Sr. Data Engineer**

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##### SUMMARY

* Over 10+ years of **Data Warehousing** professional experience in complete Software Development life-cycle (**SDLC**) of various projects, including **Requirements gathering, System Designing, Data modeling, and ETL design, development, Documentation, Implementation, Unit testing, Deployment and Post deployment Maintenance, Production Enhancements and Maintenance**.
* Extensive **ETL** tool experience using IBM **Infosphere/WebSphere DataStage, Ascential DataStage**.
* Having **3+ years** of experience in **Snowflake Cloud Data Warehouse, AWS S3 Bucket, DMS, RDS, Data analysis and implementation** in DW Solutions for both on-premises and cloud solutions.
* Creating **Stages** and **Tasks** creation for scheduling jobs, Using of **Virtual Warehouses** and Cloning.
* Good exposure on **Data loading, Transformations, Metadata Configuration, Snowpipe Configurations & Troubleshooting** and **AWS - Snowflake Integration**.
* Having good experience in **Data Sharing, Zero Copy Cloning, Time travel** and **Security implementation/Data masking** for both row level and column level in Snowflake.
* Hands-on experience in **Data loading** and **Data unloading** into **Snowflake Cloud Data Warehouse** using the **COPY** command for **Bulk** loading & used **Snowpipe** for continuous data load.
* Used **COPY, INSERT, PUT, GET** commands for loading data into Snowflake tables from internal/external stages.
* Handling large and complex datasets like **JSON**, **XML** and **CSV** files from various sources.
* Handling python frameworks to process data loading from various upstream systems like **SQL Server, Oracle, Teradata, PostgreSQL, MySQL, AWS S3** Bucket to **Snowflake Data warehouse**.
* Create task flows to automate the **Data loading, Unloading** to/from Snowflake Cloud Data Warehouse and **AWS S3 Bucket**.
* Strong understanding of the principles of Data Warehousing using **fact tables, dimension tables** and **star/snowflake schema modeling**.
* Worked extensively with **Dimensional modeling, Data migration, Data cleansing, ETL Processes** for **Data Warehouses**.
* Developed parallel jobs using different processing stages like Transformer, Aggregator, Lookup, Join, Sort, Copy, Merge, Funnel, CDC, Change Apply and Filter.
* Familiar in using highly scalable parallel processing infrastructure using parallel jobs and multiple node configuration files.
* Experienced in scheduling Sequence and parallel jobs using DataStage Director, UNIX scripts and scheduling tools like **AutoSys** and **ControlM** and **Crontab.**
* Implemented Job Sequence to integrate the entire performance of the DataStage job designs.
* Extensively worked on **Change Requests, Pull Requests** and **Bit bucket** implementations for new customer requirements.
* Involved code migrations in **Development, QA** and **Production** environments using **GitHub** and CICD pipelines (Jenkins).
* Extensive experience in **Unit Testing, Functional Testing, System Testing, Integration Testing, Regression Testing, User Acceptance Testing (UAT)** and **Performance Testing**.
* Good command on **Project Managerial roles** like **Team handling, RCA’s, Delay communications, Bug reports, Shift roste**rs etc.
* Executed test **cases, logged defects, verified defect fixes** and Captured test and defect metrics.
* Experience in **troubleshooting of jobs** and **addressing production issues** like data issues, ENV issues, performance tuning and enhancements in different phases like **Development, QA, UAT, Pre-**Prod and **Production support.**
* Hands on experience in estimating the test effort for the user stories.
* Hands on experience on create test scenarios and test cases.

##### TECHNCIAL SKILLS

* ETL Tools: IBM Infosphere DataStage v11.7, Informatica
* Programming Languages: SQL, PL/SQL, Unix (shell Scripting), Snow SQL, Python.
* Software: Toad, SQL Developer, dbeaver, Squirrel, Data studio, SVN, Autosys, FileZilla, and Putty.
* Database: Snowflake, Oracle, DB2, SQL Server, PostgreSQL and Hive.
* Scheduling Tools: Control-M, AutoSys and Crontab.
* Operating Systems: Windows, Unix, and Linux.
* Data Modeling Tools: Erwin.
* Other Tools: WinSCP, Bit Bucket, Jira, Service Now, Jenkins, Electric Flow.

##### EDUCATIONAL QUALIFICATIONS

Bachelor of Technology in Mechanical Engineering, Jawaharlal Nehru Technological University, Hyderabad, India

##### PROJECT EXPERIENCE

**TIAA Financial Services May 2022 – Till Date**

**Role: SR ETL DataStage Developer and Cloud Engineer.**

**Responsibilities**:

* Analyzed, designed, developed, implemented and maintained Parallel jobs using IBM info sphere Data stage.
* Involved in design of dimensional data model - Star schema and Snowflake Schema.
* Implemented Type I and Type II SCD (Slowly Changing Dimensions) tables in DataStage and Snowflake.
* Experienced in PX file stages that include Complex Flat File stage, DataSet stage, LookUp File Stage, Sequential file stage.
* Implemented multi-node declaration using configuration files (APT Config\_file) for performance enhancement.
* Successfully implemented pipeline and partitioning parallelism techniques and ensured load balancing of data.
* Deployed different partitioning methods like Hash by column, Round Robin, Entire, Modulus, and Range for bulk data loading and for performance boost.
* Extensively used DataStage for extracting, transforming and loading data from multiple sources like Oracle, Snowflake, Hive and Flat files.
* Collaborated with EDW team in, Low Level design document for mapping the files from source to target and implementing business logics.
* Designed and developed Data Model for the interactions data hub to support the business requirements.
* Involved in Database upgrade testing from Teradata to snowflake cloud Database.
* Extensively worked on Job Sequences to Control the Execution of the job flow using various Activities & Triggers (Conditional and Unconditional) like Job Activity, wait for file, Email Notification, Sequencer, Exception handler activity and Execute Command.
* Involved in design and development of Snowflake Database components.
* Preparing Data Load configurations, building scripts to perform New Data Loads.
* Implemented framework in snowflake to process daily loads using snowpipe and Tasks.
* Implemented DMS service to stream data from MySql to AWS S3.
* Worked with AWS S3 buckets in storing the data and access control policies, and S3 Glacier lifecycle rules.
* Knowledge on AWS EMR clusters, adding step functions to run the pipelines code (Python).
* Converting various file formats CSV, Parquet, and JSON in the transformations of the code. Defining schema in JSON format to read the files from s3 locations.
* Developed Wrapper scripts to run the DataStage Jobs, Run Snow SQL Files and Wrapper scripts to run the Stored procedures in Snowflake Utility schema.
* Developed Python API to dump array structures in the processer at the failure point for debugging.
* Created multiple DB/Account objects in Snowflake DB such as Snowflake Roles, tables, File Formats, Stages, Data loads, Views etc.
* Cloned testing environments from production to perform system testing.

**Environment Tools:**

IBM Infosphere suite (Information Analyzer, Data stage Designer, Director, and Administration), Data Integration, IBM DB2, Snowflake, PL/SQL Developer, Linux, Autosys, Erwin, GIT Hub, Jira.

**Virtusa Consulting & Services private limited.**  **Jun 2018 – Feb 2022**

**Role: Sr. ETL Developer and Data Engineer**

**Responsibilities:**

* Requirement Analysis, Design, Analysis and Design documentation.
* Migrating Legacy files data to DB2 tables to cope with new application.
* Used Data Stage as an ETL tool to extract data from different sources systems, transforming it and loaded the data into the DB2 database.
* Worked on Data Stage tools like Data Stage Designer, Data Stage Director, Information Analyzer and Data Stage Administrator.
* ETL development for complete modules of Unemployment Insurance.
* Extensively used DataStage designer to develop processes for extracting, transforming, integrating, and loading data from various sources into the data warehouse database.
* Created complex ETL jobs to implement the business logic based on requirements.
* Widely used different types of Data Stage stages like sequential file, modify, copy, aggregator, surrogate key, transformer, dataset, look up, join, remove duplicates, merge, sorter, change data capture, filter, and funnel.
* Developing complex transformations, surrogate keys, dimension tables, and fact tables.
* Utilizing the environment variables and stage variables for developing parameter-driven jobs and debugging them.
* Utilized DataStage director and job score to monitor, view log, handle unwanted warning messages, analyze performance of individual stages, and run jobs.
* Developed complex store procedures using input/output parameters, cursors, views, triggers, and complex queries using temp tables and joins.
* Worked along with client to get exact requirements.
* Converting the functional requirements into technical artifacts.
* Developing test cases and unit testing the developed code.
* Create Data Stage users and assign roles.
* Administrator for create, delete, and configure projects
* Export and Import Data Stage Projects and Jobs.
* DataMart creation for all types of UI reports for State and Federal higher management.
* Support and Maintenance of complete UI data warehouse.

**Environment Tools:** IBM Info sphere Data Stage Developer, Administrator, Oracle

**IBM India private limited Jan 2015 to Mar 2018**

**Role: Application Developer/PLSQL Developer**

**Responsibilities:**

* Development of Interface Programs to Import the data from legacy system (CASP) to Oracle Apps base Tables through Interface (JSON Data to Oracle DB).
* Worked on the development of interfaces, Data Conversions, Reports in various modules such as AP, PO, and GL.
* Implemented AP Invoice import through Payables Open Interface Import Program.
* Worked on Budget Upload Open Interface to load the data from legacy system to the GL budget interface table using SQL\*Loader.
* Responsible for development of objects in iExpenses and Account Payables Module.
* Developed an Interface program to load the Employees data which runs every day.
* Developed a Conversion program to transfer the data from Workday, Tririga to Oracle.
* Developed a package to send email after the interface program is submitted and completed normally.
* Worked on Auto Invoice Interface Program to validate and load credit memo, debit memos and invoices from legacy system.
* Responsible for importing journals from other modules like AP and AR in to GL.
* Good Experience in development and customization of Oracle reports.
* Development and Customization of Reports based on Client requirements.
* Developed Conversions and Interfaces (AP, FA, GL, INV).
* Developed XML Publisher reports from scratch.
* Converted all existing discoverer reports to XML reports.
* Design the Technical DOC. (like TDD DOC) of respective Components.
* Developed Stored Procedures and PL/SQL Packages.
* Worked on Service now incidents as per client requirement.

**Environment Tools:** Oracle Applications R12, Oracle Report Builder, SQL Developer, SQL\*Loader, Eclipse, Jenkins, Jira, Oracle 10g/11g/12c & Windows

**WinTech Services India Private Limited Sep 2012 to Dec 2014**

**Role: Application Developer**

**Responsibilities:**

* Development and customizations of reports using Oracle Reports and XML Reports.
* Development and customizations of Interfaces, packages and procedures.
* Client Interaction for Bug Fixing
* Involved in registration of Concurrent Programs, Executable, and Creation of responsibilities, Request groups, Menus, Values sets, and Functions in System Administration & AOL.
* Involved in writing Control Files for SQL Loading.
* Executing concurrent programs from PL/SQL.
* Mass updates requested by user, such as, updating the locators of the items in the inventory, updating the lead-times of the items in the inventory.
* Developed an OAF page to capture the completed invoices for the automatic payment process.

**Environment Tools:** Oracle Applications R12, Oracle Report Builder, SQL Developer, SQL\*Loader.