
MOHANASUDHA SHANMUGAM

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Professional Summary

Over 12 years of IT experience in designing and developing scalable solutions for Data warehouse applications. Worked in Retail, HealthCare, Telecom and Manufacturing domains. Experienced in working with clients for 6 years in USA. Adaptable, diligent and knowledgeable in Snowflake data warehouse. Skilled in directing development with creative and performance-oriented approach.

Skills

- ✦ **Data Warehouses** : Snowflake, Netezza, Oracle
- ✦ **Programming Languages** : PL/SQL
- ✦ **CLI tools** : NZSQL, SnowSQL
- ✦ **Operating System** : Windows, Linux
- ✦ **Deployment/Ticketing Tool** : Service Now
- ✦ **Certification** : Oracle Certified Associate

Work Experience

Career break

(02/02/2019 - Current)

Chennai, India

- Took intentional pause to focus on full-time caregiving. Proactively pursued in acquiring knowledge through remote learning in Snowflake Data warehouse
- Gained knowledge on snowflake architecture and designing virtual warehouses
- Loaded files from the external stage (AWS S3), internal stage to snowflake cloud using the COPY command
- Used COPY, LIST commands for validating the internal and external stage files
- Loaded semi-structured data into snowflake and flattened the records through FLATTEN table function to produce a lateral view of VARIANT column
- Used SNOW PIPE for continuous data ingestion from the S3 bucket
- Hands-on experience with other Snowflake utilities such as SnowSQL, Tasks, Streams, Time travel, Failsafe, Data sharing, Cloning and Stored procedures

Technical architect

02/19/2018 - 02/01/2019

IQVIA(Virtusa)

Collegeville-PA, USA

- Conducted ETL development in the Netezza environment using standard design methodologies
- Monitored progress and documented compliance with ETL best practices standards
- Ensured all deadlines were met and analyzed stability
- Implemented a process to establish Referential Integrity between related dimension/fact tables

- Assessed the Netezza environment for implementation of the ETL solutions
- Used analytical and Windowing functions of Netezza to implement complex business logic
- Managed Netezza queries by performance tuning and techniques
- Assisted in support functions and maintenance of data warehousing applications as per requirements
- Running the load with the help of Scheduler Control-M
- Lead and provided guidance to onsite and offshore teams for various EDW initiatives

Senior Netezza Developer

09/28/2015 - 02/18/2018

Dressbarn(Tata Consultancy Services)

Mahwah-NJ, USA

- Expertise in identifying and analyzing the business need of the end-users and building the project plan to translate the functional requirements into the technical task that guide the execution of the project.
- Enhanced ETL processes by optimizing complex SQL queries and streamlining data extraction procedures.
- Served as a liaison between third-party vendors, business owners, and the technical team.
- Prepared ETL standards, naming conventions and wrote ETL flow documentation
- Involved in Design, analysis, Implementation, Testing, and support of ETL processes
- Involved in development and monitoring the Control-M jobs
- Supported various ad hoc requests from end-users by delivering accurate datasets as per their requirements.
- Resolved production issues quickly and efficiently, minimizing downtime and maintaining high levels of user satisfaction.

Netezza Developer

12/17/2012 - 09/25/2015

Target-Pharmacy(Tata Consultancy Services)

Minneapolis-MN, USA

- Used Netezza SQL to maintain ETL frameworks and methodologies in use by the company
- Suggested steps and concepts for detailed estimation, designing and functionality of data warehouses
- Conducted code reviews
- Wrote and drafted manuals needed for developed applications
- Worked on highly complex projects in many different and varied technical areas and business segments
- Collaborated with software architects to ensure alignment of the Netezza environment

PL/SQL Developer

06/01/2010 - 11/30/2012

Cummins(Tata Consultancy Services)

Chennai,India

- Involved in SDLC gathering requirements from end users
- Developed views to facilitate easy interface implementation and enforce security on critical customer information
- Developed stored procedures and triggers to facilitate consistent data entry into the database
- Written Stored Procedures using PL/SQL and functions and procedure for common utilities
- Participated in system analysis and data modeling, which included creating tables, views, indexes, synonyms, triggers, functions, procedures, cursors and packages
- Created programming code using advanced concepts of Records, Collections, and Dynamic SQL
- Developed Database Triggers for audit and validation purpose

- Used pipelined functions for faster data accessibility
- Writing validation packages using PL/SQL package
- Used PL/SQL to validate data and to populate billing tables
- Used advanced Bulk techniques (FOR ALL, BULK COLLECT) to improve performance
- Developed Installation scripts for all the deliverables
- Performed functional testing for the procedures and packages
- Created and manipulated stored procedures, functions, packages and triggers using TOAD
- Wrote stored procedures using dynamic SQL to populate data into temp tables from fact and dimensional tables for reporting purpose

Junior PL/SQL Developer

07/16/2007 - 05/25/2010

Tata Communications Ltd (Tata Consultancy Services)

Mumbai, India

- Performed requirement gathering, designing and development of data models for operational control and monitoring
- Re-validated corrected data from source and re-processed to get them loaded to the oracle target
- Re-worked on the BAD Files that were generated by SQL Loader
- Used SED and AWK in UNIX Shell scripting to correct the data issues in the SQL-Loader data file
- Responsible to write scripts which identify the legacy data and the valid data
- Created Database Objects such as Tables, Views and Synonyms to provide data access to subscribing parties
- Created/modified various Packages, Stored Procedure & Functions as part of the data validation and cleansing process
- Pro-actively participated in SQL tuning, Used ANALYZE, DBMS_STATS, EXPLAIN PLAN, SQL TRACE and TKPROF
- Used SQL hints and Indexes as needed to improve SQL performance
- Designed and Created Database objects and Written PL/SQL PROGRAMMING for data extraction and transformation
- Wrote UNIX Shell scripts for performing development and unit testing
- Tested the ETL process in testing environment and created test cases