**Shahbaz Hussain**

Snowflake Developer

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**SUMMARY:**

* Having 10 Years of professional IT experience in the area of ETL and Snowflake cloud data warehouse and snowflake developer.
* Having 3 + years of Professional Experience in working with Snowflake cloud, AWS S3.
* Experience in working with AWS S3 and Snowflake.
* Understanding customer requirements, analysis, design, development, and implementation into the system, gather and define business requirements and enhancing business processes.
* Hands on Experience using DBT for performing Transformations on top of Snowflake.
* Hands-on experience in bulk [loading](https://docs.snowflake.net/manuals/user-guide/data-load.html) and unloading data into Snowflake tables using COPY command.
* Used COPY/INSERT, PUT, GET commands for loading data into Snowflake tables from internal/external stage.
* Handling large and complex datasets like JSON, ORC, PARQUET, CSV files from various sources like AWS S3.
* Experience in writing complex SQL scripts using Statistical Aggregate functions and Analytical functions.
* Utilized data visualization tool Power BI to create reports and dashboards for data analysis and presentation.
* Implemented Slowly Changing Dimensions Type 1, Type 2 methodology for accessing the full history of accounts and transaction information.
* Good understanding of Amazon Web Services (AWS) cloud computing platform and migrating the application from existing systems to AWS
* Automate ETL jobs and workflows using IICS scheduler and task automation features.
* Created INFORMATICA INTELLIGENT CLOUD SERVICES (IICS) Data Integration Mappings by using different transformations like Aggregator, Data Masking, Expression, Filter, Hierarchy Builder, Hierarchy Parser, Joiner, Lookup, Normalizer, Rank, Router, Mapplet, Sorter, SQL, and Structure Parser.
* Worked on Amazon Elastic Cloud Compute (EC2) infrastructure for computational tasks and Simple Storage Service (S3) as Storage mechanism.
* Hands-on experience with AWS services such as S3, EC2, Redshift, Glue, and Athena for building scalable and reliable data solutions.
* Migrated data from legacy systems (SQL Server, Teradata, Cassandra) to cloud based (AWS) Snowflake Data Warehouse
* Designed and Built ETL pipelines using Azure Databricks and ingested data from different sources like Snowflake, Teradata, Vertica, Oracle ETC to azure data lake storage and monitored ongoing Databricks jobs
* Experience with Snowflake Data warehouse, deep understanding of Snowflake architecture and processing Experience with performance tuning of Snowflake data warehouse with Query Profiler, Caching and Virtual data warehouse scaling.
* Good knowledge of Database management system implementation with SQL.
* Well-acquainted in working with complex SQL queries with Joins, Functions, Sub-queries, Views and Set operators.
* Created Clone concepts to maintain zero copies in Snowflake.
* Experience in building Snow pipe.
* Experience in using Snowflake Clone and Time Travel.
* Implement data transformation In Data Integration, worked on mappings, task flows, and tasks such as mapping tasks, synchronization tasks, and replication tasks.
* ETL pipelines in and out of data warehouse using combination of Python and Snowflakes Snow SQL Writing SQL queries against Snowflake.
* Experience with Snowflake Multi - Cluster Warehouses.
* Worked on TASK creation for scheduling/Automate Snowflake jobs.
* Hands-on experience in bulk [loading](https://docs.snowflake.net/manuals/user-guide/data-load.html) and [unloading](https://docs.snowflake.net/manuals/user-guide/data-unload.html) data into Snowflake tables using COPY command.
* Proficient in understanding business processes/requirements and translating into technical requirements.
* Advanced SQL skills including complex Joins, snowflake stored procedures, views etc.
* Ability to work independently and as a team with a sense of responsibility, dedication, commitment and with an urge of learning new technologies.
* Good exposure in Snowflake Cloud Architecture and SnowSQL and SNOWPIPE for continuous data loading.

**PROFESSIONAL WORK EXPERIENCE:**

Client**: Ford Motor**

**Detroit, MI** **Oct 2023 – Till Date**

Title: **Snowflake Developer**

**Responsibilities:**

* Design and development of Extract, Transform, and Load (ETL) processes for extracting data from a various legacy system and loading into target tables using SQL, DataStage Enterprise Edition.
* Understanding the entire business flow of the project form beginning to end.
* Having adequate knowledge on quality stages that are used in the existing jobs. Using Sequential file, DB2, Join, Lookup, transformer, datasets, filter, Merge, Sort, remove duplicate stage for designing the jobs in the Data Stage Designer.
* Created data sharing between two snowflake accounts.
* Created internal and external stage and transformed data Using DBT.
* Created jobs to implement SCD type1 and type2 Loads Using DBT.
* Redesigned the Views in snowflake to increase the performance.
* Performed Unit testing on data in Snowflake.
* Created Snowpipe to retrieve the data from external source (AWS S3 bucket).
* Created Streams to merge the Data into Snowflake tables.
* Retrieved the Data from LFS and External File systems.
* Created Cluster's on the tables to improve the performance.
* Worked on Time Travel Mechanism and Cloning the tables.
* Consulting on Snowflake Data Platform Solution Architecture, Design, Development, and deployment focused to bring the data driven culture across the enterprises.
* Automate ETL jobs and workflows using IICS scheduler and task automation features.
* Implemented Change Data Capture technology in Snowflake using stream Mechanism to load deltas to a Data Warehouse.

Client: **Public** **Consulting Group/PCG** Dec **2021 – Aug-2023**

**Boston, Massachusetts**

Title: **Snowflake Developer**

**Responsibilities:**

* Worked on SnowSQL and Snowpipe
* Created Snowpipe for continuous data load.
* Used COPY to bulk load the data.
* Created data sharing between two snowflake accounts.
* Created internal and external stage and transformed data Using DBT.
* Created jobs to implement SCD type1 and type2 Loads Using DBT.
* Redesigned the Views in snowflake to increase the performance.
* Performed Unit testing on data in Snowflake.
* Created Snowpipe to retrieve the data from external source (AWS S3 bucket).
* Created Streams to merge the Data into Snowflake tables.
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* Consulting on Snowflake Data Platform Solution Architecture, Design, Development, and deployment focused to bring the data driven culture across the enterprises.
* Automate ETL jobs and workflows using IICS scheduler and task automation features.
* Created INFORMATICA INTELLIGENT CLOUD SERVICES (IICS) Data Integration Mappings by using different transformations like Aggregator, Data Masking, Expression, Filter, Hierarchy Builder, Hierarchy Parser, Joiner, Lookup, Normalizer, Rank, Router, Mapplet, Sorter, SQL, and Structure Parser.
* Implemented Change Data Capture technology in Snowflake using stream Mechanism to load deltas to a Data Warehouse.
* Unload the Data from Snowflake tables to the client required format files (CSV, dat and txt extensions files)

**Environment:** Snowflake, DBT, Kafka, Apache Nifi, Hadoop, Sqoop, AWS, S3 buckets, Jira, Git Lab, SQL, Unix, Python

Client**: Dell Nov 2017 - Dec 2021**

**Hyderabad**

Project Name**: CFI**

**Responsibilities:**

* Migrate data (Amazon Connect Call Metrics) from legacy systems (Cassandra) to cloud based (AWS) Snowflake Data Warehouse
* Prioritize the development of new tables, schemas, and data structures
* Proactively identify new opportunities to support the business with data, aggregate various data sets to inform business decisions
* Migrate data from legacy systems (Salesforce) to cloud based (AWS) Snowflake Data Warehouse and develop metrics to provide data insights as per business requirement
* Develop ETL pipelines in and out of data warehouse using combination of Python and Snowflake’s SnowSQL.
* Write sql queries to perform data quality checks/validation in AWS snowflake as compared to legacy data
* Collaborate with the Business Intelligence Analyst to support data modeling efforts.
* Automate ETL jobs and workflows using IICS scheduler and task automation features.
* Develop presentation layer and Create Tableau scorecards, dashboards using stack bars, bar graphs, scattered plots, geographical maps, Gantt charts using show me functionality
* Design and Optimize Data Connections, Data Extracts, Schedules for background Tasks and Incremental Refresh for the weekly and monthly dashboard reports on Tableau Server
* Data validation of the results in Tableau by validating the numbers against the data in the database tables by querying on the database.
* Complied interactive dashboards in Tableau Desktop and published them to Tableau server which allowed Story telling with Quick filters for on demand needed information and data insights with just one click of a button.
* Schedule AWS snowflake reports through Python airflow, data visualization in AWS S3 cloud box. Automatically upload S3 cloud box files to databases in AWS snowflake through Python airflow.
* Create and maintain source codes in GitHub, kept track of source codes, explored and shared the changes of coding scripts, notes in GitHub.
* Integrate various data sources and destinations, including cloud platforms, databases, and applications, using IICS.
* Develop a layer of applications modules over the Python - Pandas library, delivered various data frame visualization tools, Data wrangling and cleaning using Python Pandas
* Optimize SQL queries and DBT models for performance within AWS data services
* Schedule DBT runs using AWS CloudWatch Events or AWS Glue workflows.
* Automate DBT model runs using AWS services such as AWS Step Functions or AWS Lambda.
* Develop DAGs and Setup production environment for the Apache Airflow for scheduling and automation system that managed ETL and reporting
* Utilize Snowflake SQL and ipython Jupyter notebooks to extract, transform, clean and load data in the target tables to enable effective reporting and business intelligence functions.
* Effectively used NumPy, pandas, SQL alchemy and sci-kit packages to support the migration in Python
* Troubleshooting, problem solving and performance tuning of queries accessing Snowflake data warehouse
* Supported real-time data handling by making use of Amazon S3 buckets for storing and accessing process results

Client: **Panasonic** **Oct 2015 - Oct 2017**

Role: **ETL Developer**

**Chennai**

Project Name: **Panasonic**

**Responsibilities:**

* Attending the Business Alignment meetings with Business Analysts and Technical SME’S to understand the business requirements or implementing the new features.
* Involved in leading both onsite and offshore teams.
* Worked closely with the SME and BA to get an understanding of the business requirements.
* Worked in Agile Model, moving through the sprint cycle and using the tracking Tool: JIRA.
* Prepared Functional specification Doc to convert the business requirements into ETL Mappings.
* Worked on Mater data objects -BP, SO, SOCHAR, PRICING and transactional objects such as OPEN AR, Security Requests, Security deposits, Open Payments, collections.
* Created multiple intermediate stage mappings to perform the data quality and data validations process as per the business requirements.
* Extracted the data from different sources and transform the data into Datamart's by applying validation rules.
* Develop Custom mappings using Informatica Cloud Mapping Designer to load data into custom Facts, dimensions, and hierarchies.
* Implemented Error Handling Concepts to handle the incorrect or missing data by using Exception tables.
* Actively involved in Design, development & build of ETL data-integration pipelines on a cloud platform.
* Having experience in building service connectors and application connectors, using REST V2 connectors to access Swagger files and usage of POSTMAN/Soap UI.
* Expertise in implementing Slow Changing Dimension (SCD) Type 1 & Type 2 using Informatica to maintain history in Dimension tables.
* Actively involved in migrating the data warehouse to Snowflake and re-plat forming the ETL to Informatica Cloud Services.
* Involved in design and development complex ETL mappings and workflows in an optimized manner.
* Extensively worked in fixing poorly designed mappings.
* Performed Code review to ensure that ETL development was done according to the company’s ETL standard and that ETL best practices were followed.
* Worked on performance tuning of lengthy SQL’s and fine tuning at mapping/workflow level by looking into Source/Target/Session level bottle necks.
* Prepared the documentation for the mappings and workflows.
* Involved in Unit testing, Integration testing, UAT by creating test cases, test plans and helping Informatica administrator in deployment of code across Dev, Test and Prod Repositories.
* Involved in Production Scheduling to setup jobs in order and provided 24x7 production support. Involved in trouble shooting and resuming failed jobs.
* Worked with different Informatica tuning issues and fine-tuned the transformations to make them more efficient in terms of performance

**Environment**: Informatica IICS, UNIX, putty, Win SCP, Snowflake, Flat Files, Oracle 10g, SQL, ZENA, SQL plus, SQL Server, JIRA.

**Education:**

* Masters in Computer Science & Engineering ,JNTU Anantapur, 2015