

**TEK010152** (Data Engineering - 9 + Year) BTech

## Highlights

---

- 9.10 years . of experience as a data engineer and developer in the analysis, design, and implementation of data warehousing, database, and BI applications for pharma, fintech, CRM, B2B, B2C, C2D, and ERP applications

## Skills

### Primary Skills

- AWS
- My SQL

### Secondary Skills

- Kafka
- Python

### Other Skills

- **RDBMS /NoSQL** : MySQL 5.7,8.0
- **Database Administration** : Percona MySQL 5.7,8.0 /XtraDB Cluster 8.0.27
- **Database load balancer/Proxy** : ProxySQLv2 2.3.2
- **Operating System** : Ubuntu 18.04, CentOS 7
- **Database Tools RDBMS** : SQLYog
- **Full text search** : Manticore 6.0
- **Version Control** : GIT
- **Data warehouse** : AWS Redshift/Snowflake
- **BI Tool** : Intellicus,Apache Superset
- **ETL** : DBT
- **Streaming Platform** : Apache Kafka 3.1.0
- **Change Data Capture (CDC)** : Debezium 1.8, IICS(Informatica)
- **Scripting language** : Shell/Bash/Python (basic scripting only)
- **Database Backup utilities** : mysqldump, Percona Xtrabackup 8.0.28- 21
- **Workflow Mgmt and Orchestration** : Airflow
- **AWS services** : Amazon S3, AWS EC2,Amazon kinesis

## Projects

### Project - 1

#### Role and Responsibilities :

##### Associate Technical Architect

- Developed and implemented Snowflake data warehousing solutions, including schema design, tables, views, and stored procedures.
- Optimized SQL queries and performance-tuned Snowflake databases for enhanced data retrieval and processing.
- Designed and developed end-to-end data warehousing solutions, including data modelling, ETL/ELT processes for data integration, transformation and loading into snowflake/Redshift to support reporting and analytic requirements.
- Created and maintained data models to support business reporting and analytic requirements.
- Worked on dimensional Data Modelling (Star & snowflake schema, Fact and Dimension) experience using data modeling, relational data modeling, ER/Studio, Erwin in both forward and reverse engineering cases, and data marts, data lake, delta lake, data mesh and aggregates.
- Designed and implemented end-to-end data processing pipelines on AWS using services such as Amazon Kinesis to ingest, process, and analyze large volumes of data.
- Worked on snowflake capabilities like snowpipe, streams and tasks

### Project - 2 (52 months)

#### Role and Responsibilities :

##### Sr. Database Engineer

- ETL execution monitoring, debugging, and fixing the failed ETL processes.
- Implemented a scalable and automated data ingestion pipeline using Snowpipe.
- Build scalable databases capable of ETL processes using SnowSQL and stored procedures.
- Evaluate the workflow and increase the efficiency of data pipelines.
- Created coherent Logical Data Models that helped guide important client business decisions.
- Experience with implementing data collection strategies, data modelling, and data storage implementing ETL / ELT solutions.
- Worked on data engineering platform components such as Data Pipelines, Data Orchestration, Data Quality, Data Governance & Analytics.
- Reduced data processing time by optimizing the ETL workflows and implementing performance tuning techniques.
- Worked on change data capture (CDC), using IICS(Informatica) to capture the changes in OLTP.
- Worked on Data Warehouse/ODS, ETL concept, and modelling structure principles, conceptual data modelling, logical data modelling and physical data modelling.

- Have good exposure on Kafka for change data capture to ingest the data in sink connector.
- Worked on ETL migration to snowflake.
- Experience in writing SQL scripts in DBT to perform ELT/ETL loads.
- Worked on snowflake performance tuning and query optimization.
- Built data pipelines using AWS data pipeline, AWS kinesis and ELT pipeline (batch and streaming) for AWS Redshift and snowflake data warehouses

## **Project - 3 (4 months)**

### **Role and Responsibilities :**

#### **Database Developer**

- Worked on Performance Tuning, index tuning of MySQL Databases and query optimization.
- Developed the Enhanced entity-relationship (EER) diagrams.
- Monitored production database server and worked on database errors.
- Ensured availability and security for database in a production environment.
- Worked on MySQL replication configuration (Master-slave) and Event scheduler.
- Developing & maintaining naming standards for database objects such as tables, indexes & views. MySQL processes, security management and queries optimization.
- Experienced in handling MySQL Security, establishing MySQL Replication and Percona MySQL XtraDB cluster between two or more MySQL Database servers to ensure high availability.
- Developed ETL scripts to load in the intermediate tables and load the data in batch and near real time.
- Developed mappings to load into staging tables and then to dimension and fact tables

## **Project - 4 (58 months)**

### **Role and Responsibilities :**

#### **Software Engineer**

- Proficient in developing stored procedures, triggers and cursors and Tables. Etc.
- Experienced in Query optimization and index tuning.
- Working on BI (data warehousing) queries for reports and writing the ad-hoc queries (reports).
- Worked on data warehousing facts and dimensions, and aggregate tables.
- Worked on long running queries on database