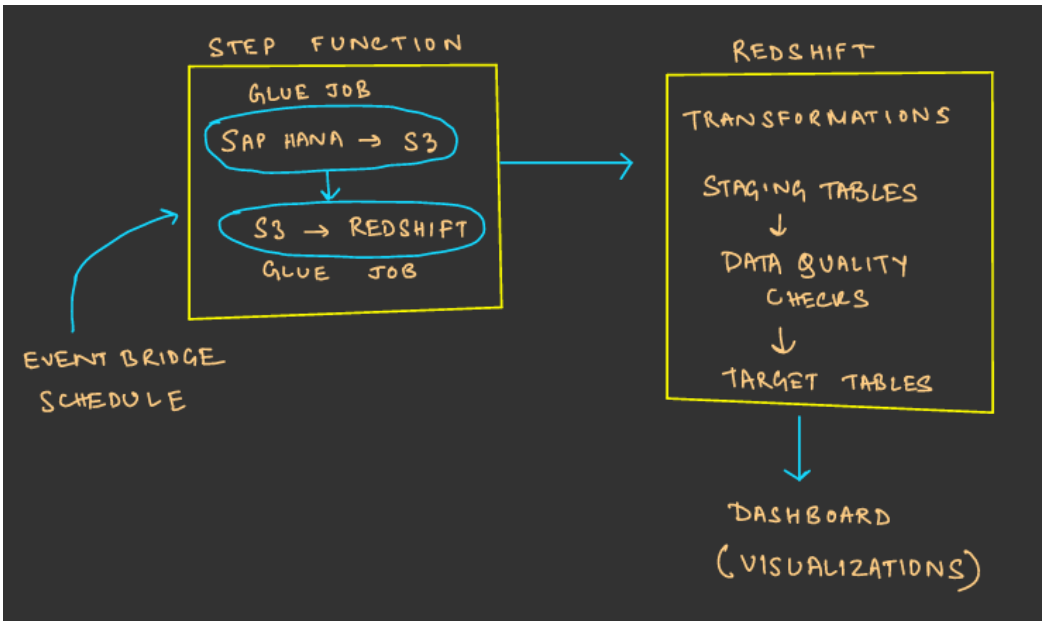
- **SAP Hana to Redshift Ingestion and built dashboards – A leading Cement Manufacturer**
  Tech Stack – SQL, SAP Hana, Redshift, Glue, S3, Step function, EventBridge

Project design:



Project execution Steps:

- Created Glue Job with visual ETL which would fetch data from SAP Hana source and dump it into S3 folder in parquet format.
- Created another Glue job with visual ETL which would read the data in parquet files in S3 and ingest it into redshift staging tables.
- Tables were maintained in Data Catalog following updated schema and added partitions
- In Redshift, created stored procedures which would insert the data from staging tables to main target tables after satisfying the data quality checks.
- Data quality checks are maintained in dynamic tables in Redshift which rules were shared by the client so that whenever any new rules/changes needs to be done, then minimal changes can be done on tables column values. Don't need to change multiple times in the glue jobs.
- Created stored procedures in Redshift for transformations by joining multiple tables, restricting columns, etc as per client requirements.
- Created data models in Redshift tables by referencing foreign keys after transformations.
- Visualizations are performed in Tableau by using these tables and insights are shared to clients.
- It saved in their **revenue by 10%**.
- These two glue jobs are automated using step functions one after another.
- Fully automated the whole process by creating Eventbridge schedule which would trigger the Step function.