

Snowflake QA Framework v2

Streamlit + Snowpark Powered Data Quality Accelerator



Executive Summary

Data quality issues lead to unreliable analytics, compliance risks, and delayed decision-making. The Snowflake QA Framework v2 solves this by enabling no-code rule creation, automated validation, anomaly detection, and email notifications – all inside Snowflake using Snowpark Python and Streamlit.

It gives engineering and QA teams full visibility into rule performance, data health, and operational efficiency through real-time dashboards and AI-driven insights.

Business Problem

Manual QA checks and fragmented validation processes slow down data teams and reduce trust in analytics. Organizations struggle with:

No centralized way to manage QA rules

Time-consuming validation across datasets

Lack of real-time visibility into data health

No automated alerting or anomaly insights

Solution

A **Snowflake-native QA accelerator** that enables teams to define rules, validate data, detect anomalies, and get email alerts instantly – all through an intuitive Streamlit interface.

Key Capabilities:

No-code Rule Creation (>, <, =, IS, etc.)

Pushdown Execution with Snowpark Stored Procedure

Real-Time Pass/Fail Dashboards & Trend Analytics

AI-Driven Insights for Data Health & Optimization

Anomaly Detection for nulls, duplicates, domain violations

Email Notifications via SYSTEM\$SEND_EMAIL

Performance Metrics: query runtime, resource usage

Rule Logging & History Tracking for audits

Key Business Benefits

Faster validation & QA automation

01

Centralized visibility across datasets

02

Data you can trust for analytics & compliance

03

Better collaboration between data, QA & engineering teams

04

Fully governed – all inside Snowflake

05

Why Boolean Data

We build **Snowflake-native accelerators** that enable secure, scalable, production-ready solutions without external tools or APIs.

Our expertise in Snowpark, Streamlit, and data governance ensures **faster deployments and measurable impact on data reliability.**

Contact Us