



Resolving Data Quality Concerns Benefiting From a Modern Data Queuing System

Overview

With business users questioning the quality of their data, a solution was required to ensure the integrity of data being transferred between systems.

Maintenance can also be reduced by defining standard, reusable data models with subscription-based messaging.

There is also increasing expectation from users for real-time access to their data for immediate insights, this can also be solved with the proposed solution.

The Challenge

The reliance on ad-hoc scripts and bulk data transfer makes errors difficult to reconcile and time consuming to update.

Having similar data requirements between systems has led to multiple sources of errors and higher maintenance requirements.

Success on resolving these issues is measured by fewer incident reports, less time spent in one system and immediate access to accurate data.

Industry: Pharmaceutical and Life Sciences

Location: Calgary, AB (headquarters of Canadian Agriculture arm of business)

Size: 110,000 employees globally (1,400 in Canada)

Company Bio

The company is a multinational pharmaceutical and life science company. The work described herein was completed with the Canadian Agribusiness arm of the company.

100+ Database tables removed, reducing points of failure

50% Reduction in maintenance time



The Solution

With Raven Bay's extensive data experience we were able to identify issues and streamline the data transfer requirements. We developed shared data models and replaced scripts with message-based jobs in a cloud-based centralized queuing system. This allows for real-time monitoring of individual data messages and provides redundancy, backup storage and automated error resolution via repeat message delivery attempts.

The Results

The average time for large volume data delivery to the end user interface was reduced from 1 day to 1 hour, with most updates occurring in seconds.

- Data integrity is ensured through use of a message queuing system
- Job complexity is reduced via standardized data hierarchy subscription model
- Lower time to add new systems and increased reliability by using shared data models
- On-demand visual logging of all data transfer processes

“Using a message queue can ensure that business-critical messages between applications will not be lost and that they will be only be delivered to the recipient once. With this feature in place, additional de-duplication or loss-prevention logic is unnecessary.”

IBM¹



About Raven Bay

As a full-service management consulting and analytics firm able to deliver solutions in both the business & technical realms utilizing the same set of resources; thereby shortening delivery timelines and providing more holistic solutions for our clients. Our proven methodologies & hands-on experience enabling organizations to achieve the benefits of an effective analytics program through this offering also accelerate the development & value realization of the unique Governance Model we will create for you.

¹ <https://www.ibm.com/cloud/learn/message-queues>