



Inefficiencies around data access & performance can compromise an effective analytics program

Maximizing database potential through a sound data replication program

Overview

An effective data analytics program is essential for businesses to compete, but inefficiencies around data access and performance can compromise those potential improvements. As a result, companies are investing into smart data replication programs with strong validation and effective policy oversight.

Developing a robust data replication program ensures that production data is not compromised by analytics queries, while giving analysts the accurate, up-to-date data they require to make strategic decisions.

Industry: Energy
Location: Calgary, AB
Size: 1500+

The Challenge

Our client collects a massive quantity of data from their business operations but were unable to leverage that data for decision making. The production data was too essential to be slowed down by potential analytics queries, and their previous replication approach using SSIS scripts was ineffective. They have invested in a system to develop a data replication system to:

- Replicate all production data to a reporting database in a timely manner
- Validate the successful replication for SOX and other compliances
- Provide reliability with minimal downtime to support the daily use of analytics reports reliant on the data

Company Bio

A North American energy infrastructure company based in Calgary, Alberta. The company operates in three business segments: gas, power generation, and utilities.

Users require instant response time and 24/7 availability. The database structures that support applications must be maintained to ensure optimal application performance. Proper database design, appropriate choice of clustering and reorganizing of databases based on statistics help to deliver efficient databases

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The Solution

Raven Bay assisted in the implementation of a Starquest Data Replication system that would operate independently and automatically. Raven Bay worked with stakeholders in developing techniques for validating successful data replication, and the processes to ensure the replication software is monitored properly. In addition, Raven Bay provided support to maximize the software's throughput and efficiency while minimizing outages. This approach has drastically improved the adoption of the analytics program and grown trust into the broader analytics and automation initiative, while reducing the reliance on unstable SSIS scripts.

The Results

Raven Bay delivered the following results:

- Validation process and documentation to ensure the replication software is working as intended
- Software configuration and support to improve the effectiveness of the software
- Implementation and communication with vendor to certify the Starquest installation is running optimally, while expanding the usage of the software solution and reducing SSIS scripts



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.

*<http://www.dbta.com/Columns/DBA-Corner/Dont-Neglect-Database-Performance-120356.aspx>

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