

# DATA WAREHOUSE ON CLOUD

## Data Warehouse on Cloud with Snowflakes and Visualization with TABLEAU

### Overview

This is a case study of one of the clients of Pyramid Solutions who migrated their databases to Cloud. Moving to the cloud has many advantages over that of staying on-premise, like, cloud environments are generally scalable, reliable, and highly available. This case study describes the benefits of migrating the databases to Cloud, how it reduced the CAPEX and OPEX expenses, Challenges, Solution for the problem, Snowflake architecture, and the approach used by Snowflake Software to migrate data.

### Business Objective

- ▶ To reduce Capex and Opex costs by evaluating a Cloud solution.
- ▶ To use the latest technology advancements like DW on the cloud to explore (for data growth in terabytes).
- ▶ To address data silos in multiple different formats.
- ▶ To generate Self-service Business Intelligence(BI) reports.

### Business Solution

- ▶ Evaluated multiple tools like HBase, Hive, etc., for data warehouse along with Snowflakes.
- ▶ Developed an end-to-end solution to migrate ETL process like Data Profiling, Assessment, etc., on the cloud.
- ▶ Migrate Data warehouse to Snowflakes.
- ▶ Integrate Tableau visualization tool for rich features.

### About Pyramid

Pyramid Consulting Inc. is a global technology and process driven software solutions company offering customer centric solutions. With knowledge and experience of the entire IT lifecycle, we help enterprises streamline core IT processes and augment their competitive advantage. Pyramid's global delivery model harnesses productive tools, agile methodologies, iterative processes and expert frameworks to provide innovative and cost-effective solutions.

Our domain and industry experts engineer robust technology solutions for clients in a wide range of industries including retail, logistics, healthcare, insurance, software development, financial services, media, publishing and telecommunications.

#### Global Headquarter

Pyramid Consulting, Inc. 11100 Atlantis Place Alpharetta, GA 30022, USA  
Phone: 678.514.3500 Toll-free: 877.248.0024

#### USA

Georgia  
New York/New Jersey  
North Carolina  
Virginia  
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### Business Benefits

- ▶ Centralized view of discrete data sources on the cloud.
- ▶ Snowflake supports both structured and semi-structured data.
- ▶ Performance of the analytics was better than in traditional systems.
- ▶ Data is available on demand in native format for Data scientists to provide Self Service BI capabilities.
- ▶ Tableau integrates well with Snowflakes for analyzing and publishing data.

### Conclusion

- ▶ Tableau and Snowflake integrate seamlessly for versatile Reports and Dashboards.
- ▶ Tableau with in-memory features is scalable with Snowflake architecture.
- ▶ Snowflake and Tableau offer attractive pricing models for even split-second query times.