

# DATA QUALITY AND PIPELINES - NEW AGE TOOLS

## Data Integration and Data Pipeline for Modern ETL

### Overview

This is a case study of one of the clients of Pyramid Solutions. The company was collecting loads of data generated from their app, offline centers, Databases like MongoDB, MySQL, systems like Google Analytics, Freshdesk, Mixpanel, and more. But, all this data was inaccessible to the majority of the teams. Hence, there was a need for a modern tool that will simplify the data integration problem. This case study describes the problems with the existing tool, need for a modern tool, demands of modern businesses and the workflow in a modern ETL.

### Business Objective

- ▶ To simplify the data integration problem.
- ▶ Use a single tool that could connect to multiple sources.
- ▶ To ease the transformation process and build robust data pipelines
- ▶ To streamline data in real-time with zero data loss.
- ▶ To allow users to view all the stages of data on a Dashboard(single view).

### Business Problem

- ▶ All the voluminous data collected and generated by the company was inaccessible to the majority of the teams in the company due to data silos.
- ▶ The team was gathering data from multiple sources, was writing complex scripts to transform data, building data pipelines and moving data to their warehouse.
- ▶ They would then run a custom (python) script on DW to pull data, build reports and email this across the business teams.
- ▶ They would also handle all the changes/exceptions that occur at the source or destination to ensure data is flowing into the DW and with no data loss.

### Business Solution

- ▶ A modern platform(Hevo data) was chosen that simplifies the data integration problem.
- ▶ The platform connects to multiple sources and provide single view of the data thus solving the data silos problem.
- ▶ The transformation process is very easy to use and has robust data pipelines.
- ▶ The data pipeline connects any source to any destination with-in minutes.
- ▶ There is no data loss due to replay queues and data is transferred real-time.

### Conclusion

- ▶ Data now accessible to all the teams in the company.
- ▶ Get notified in real-time of any changes in the data via email and slack
- ▶ Clean, transform and enrich data in real-time using python transformation.
- ▶ Build models and workflows on data.

## 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.

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