

## Case Study

iClassPro re-architected their AWS analytics workload using Amorphic data lake for unified reporting and analytics



### Executive Summary

iClassPro has implemented its class management software solution on AWS with 2500+ active schools. They faced a challenge as they could not perform analytics in their existing system due to design limitations of their data architecture. iClassPro wanted to segregate their analytical workload from the transactional workload by migrating their data into a data lake. Cloudwick fast forwarded their migration journey by using Amorphic, which provided an ETL framework to orchestrate the migration of 5000 tables during a proof-of-concept targeting half a million in production.

### Customer Challenge

The nature of the SaaS design and the siloed transactional model made it hard for iClassPro to aggregate their data and perform analytics. Providing access control over these data objects and managing authorization was a tedious task. With their growing client base, it was not sustainable to run their analytical workloads on their transactional systems, which motivated them to move to a scalable and manageable architecture for their Analytical workloads. Another key factor in their search for a solution was the ability to have access control over the data lake.



### About the customer

iClassPro is the world's leading provider of class management software for gymnastics, swimming, dance and other schools. The software solution helps manage the business needs of the school, including - scheduling classes, tracking attendances, authorizing payments, etc.

iClassPro is headquartered in Longview, Texas, and has close to a thousand international clients.

## Technologies Used



## Results & Benefits

- ✓ Ability to aggregate data and perform analytics
- ✓ Ability to process ingestion at the scale of million DB objects
- ✓ Ability to control data access/authorization
- ✓ Ability to build KPIs in Amazon QuickSight and export reports to their clients

## Why did iClassPro choose Cloudwick and AWS?

iClassPro has implemented its cloud-based software solution in AWS and has skills in various AWS services. The familiarity with the services and its scalable nature made them choose AWS over other vendors. The compatibility between the transactional system and analytical system is another key aspect which eased their Analytical journey, thus making AWS their first choice. Most of the other solutions were too expensive or did not scale to their requirements.

AWS recommended Cloudwick to iClassPro based on the expertise and success in prior data lake projects. The Client had approached various partners who had turned down the engagement because of the scale and the nature of the challenges. Most of the partners were too expensive and could not provide a definitive framework.

Cloudwick used Amorphic to show a unified analytics solution. Amorphic provided role-based access control over the objects in the data lake, which was one of the prime requirements. Cloudwick could address the challenges and came up with an implementation plan that was concrete, whereas other partners weren't able to show a solution within the short time frame.

## Cloudwick solution on AWS

Cloudwick could leverage Amorphic APIs to build an ETL framework to orchestrate the ingestion and transformation process. The Amorphic API enabled access control over the data lake objects, satisfying the security requirements. This enabled iClassPro to share data among various groups, thus taking control over the authorization. Using the ETL framework, they could scale up their ingestion process and aggregate the data into 'AWS Redshift' for their reporting needs. Cloudwick provided helper scripts to manage the life cycle of data lake objects.

## About Cloudwick:

Cloudwick is an AWS certified Advanced Consulting Partner that specializes in building native data lakes that power faster, cheaper and more agile cloud analytics for IT, business users and data scientists.

Whether you need to migrate your analytics to the cloud, add decision automation to your business intelligence, improve customer experience with machine learning or want to build or buy a data lake, Cloudwick has a complete portfolio of services and solutions.

