

How Hasura helps customers access Cherre's real estate knowledge graph with a single GraphQL API

Cherre's market-leading SaaS platform easily connects disparate real estate data into a single source of truth for clients' entire organizations. Cherre helps clients unlock the value of their data, empowering users to extract meaningful, immediate insights and make better decisions. Here's how Hasura helps make this happen.

Competitive advantage through data insights

Cherre helps enterprises bring together their internal, public and third party real estate data and empowers them to evaluate opportunities faster and more accurately - all while saving millions of dollars in manual data collection and analytics costs.

This technology is perfect for insurance companies, property developers, investors, lenders, asset managers & real estate tech firms. Cherre's clients include the Real Estate Board of New York (REBNY), Keller Williams NYC, Stratus Data Systems, August Partners and more.

Impact and outcomes

-  Production and dev teams are freed up from data tasks to do more important work.
-  Faster, simpler product delivery.
-  A scalable framework that can handle almost infinite client requests.
-  A seamless, low maintenance user experience for clients.
-  Visibility into client API usage to improve the service.

The challenge: Complexity and scale

Cherre's ecosystem includes three types of data:

- ▶ **Public data feeds:** Publicly available information like property registration details and demographic data.
- ▶ **Third party vendor data sets:** Cherre proactively partners with third party vendors so that clients who are subscribed to these can access them easily within Cherre, e.g. AirDNA.
- ▶ **Customers' own data:** Organizations' private data, e.g. systems that track portfolio performance, direct feeds they subscribe to, etc..

Cherre pulls all these together into their Core Connect platform and a number of other downstream products.

Cherre's biggest challenge was handling multiple combinations of data streams, factoring in customized business logic, and creating thousands of possible end points. They wanted to be able to offer this kind of customized business intelligence at scale - quickly and easily.

Why Cherre chose Hasura.io and GraphQL

Cherre initially considered Representational State Transfer (REST) API architecture but soon realised it wouldn't work for them. Creating one new endpoint from one connected data set would be simple, but REST couldn't scale up and handle the complexity that Cherre's clients demand.

The team settled on Hasura and GraphQL as this combination offers:

- ▶ **Schema stitching.**
- ▶ **Out-of-the-box spatial queries.**
- ▶ **Object aliasing.**
- ▶ **Custom functions.**

Hasura's impact on Cherre's SaaS

Spatial queries are quick and easy

Cherre's clients often want to pull information from custom-drawn geographical areas. Hasura makes these queries very easy via a built-in `_st_contains` function that is native to PostGIS. This kind of use case can be created very quickly, with little work.

No more code changes for clients

Hasura's object aliasing feature means Cherre can version data and objects without their clients having to make code changes in their API calls.

Creating custom functions is so much easier

Hasura is a powerful tool for creating custom functions. Cherre's clients can pull data based on very specific use cases without Cherre having to do much work on the ETL.

Client data is kept separate

Data security is very important to Cherre's clients. Hasura accommodates and secures separate data and schema stitches them together to create a seamless user experience.



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- Kevin Mattice, Head of Product at Cherre.

Future plans

Cherre's next task is to introduce rate limiting on client API calls. This popular way of provisioning an API will help Cherre to structure different client plans and pricing levels. Hasura is working closely with the Cherre team to make sure the end solution will meet their needs and support their clients.

About Hasura.io

Hasura makes developers superhuman and simplifies app development with its open-source, real-time GraphQL API engine to instantly create reusable, GraphQL and REST APIs from your new and existing data. Power modern apps and complex data integrations while radically reducing your development time by using a unified interface in the cloud or on-prem. Hasura provides the tools, scale, and granular security to power the most mission-critical workloads. Learn more by visiting <https://hasura.io>

