

# Catalogs in Apache Iceberg: Choosing the Right One



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# What is an Iceberg Catalog?

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An **Iceberg Catalog** helps you locate and manage tables by storing and organizing their metadata.

It acts as a lookup system—when a system needs to interact with a table, the catalog tells it **where to find the table and how to access it**.

Catalogs are essentially the gateway to your data. They play a critical role in data accessibility. The file format wars are behind us—now, it's about building actionable insights. But we still face a complex frontier: catalogs.

So, what exactly is a catalog? Is it a schema registry? A metadata store? A business discovery tool? It can be ambiguous. However, in this context, we're referring to **Iceberg catalogs**.

# A Brief History: Why Catalogs Matter

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As internet users and data volumes grew, vertically scalable databases (Oracle, MySQL) gave way to massively parallel systems (Greenplum, Teradata). Then came Hadoop, which democratized big data by combining:

- Distributed storage (HDFS)
- A reverse-engineered MapReduce
- A resource orchestrator

Hive added a SQL layer on Hadoop, followed by improvements such as Avro (enhanced schema evolution) and Parquet (improved columnar read performance).

Now in the **Lakehouse era**, data resides in object stores (like S3), stored in open formats (like Iceberg), and queryable by multiple engines.

But even with all these pieces—data, format, engines—you still need a **catalog**.