IBM Common SQL Engine

Gain flexibility and protect your data management investments

IBM

Stop paying the price for flexibility. Protect your data management investment with the Common SQL Engine and IBM Hybrid Data Management.

Your organization's data needs can change rapidly. In response, smart organizations have adopted hybrid data management strategies with flexible deployment capabilities. These include cloud and on-premises deployments, as well as relational and data lake infrastructure implementations to house and analyze both structured and unstructured data.

However, these flexible deployment capabilities typically require the ability to rewrite or otherwise restructure the queries, applications and management schemes that use this diverse data. If you want to change a database deployment, vendor or format, you might have to rewrite your applications, license new software or both.

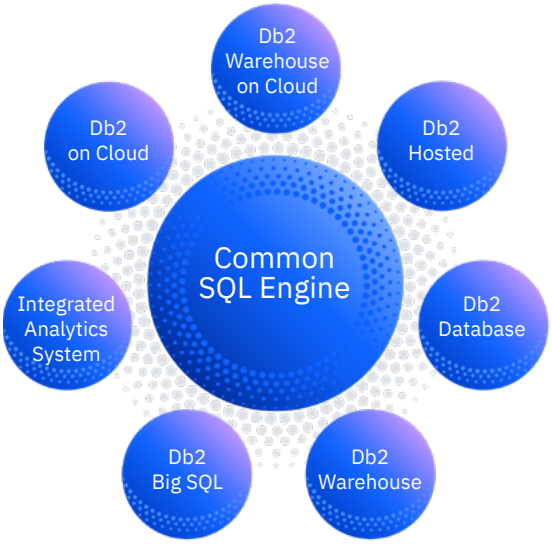
If you choose IBM® hybrid data management offerings, the Common SQL Engine protects your data management investment. The Common SQL Engine is part of a comprehensive IBM strategy for flexibility and portability—one that includes application compatibility, strong data integration and flexible licensing. The Common SQL Engine includes an Oracle Application Compatibility layer, allowing Oracle applications to integrate with the IBM Db2® family of offerings, as well as the IBM Integrated Analytics System. Typically, more than 98 percent of existing Oracle application code can run as-is.

Query and application compatibility

You can be confident that once you write a query, it will work across the Db2 family of offerings, including databases, data warehousing and open-source Hadoop. It is also compatible with the IBM Integrated Analytics System and existing IBM PureData® for Analytics (Netezza®) offerings. With the Common SQL Engine, you can change your data infrastructure as needed without worrying about application compatibility or license costs.

Although the Common SQL Engine is the heart of query and application compatibility, this compatibility extends beyond data repositories and analytic applications — it includes security, governance, management, data movement and other applications as well.

The IBM Common SQL Engine is designed to help your applications just work on cloud or on-premises, with transactional, warehouse or data lake repositories.



Write once, run anywhere with the Common SQL Engine

Data integration and virtualization

Comprehensive and valuable insights usually draw on different types of data from different repositories, so application compatibility isn't much use without data integration. Fortunately, the Common SQL Engine includes built-in data virtualization services to help ensure you can access data from all your data sources. These virtualization services apply to the Db2 family of offerings, including IBM Db2, IBM Db2 Warehouse, IBM Db2 Big SQL and others; as well as IBM Integrated Analytics System and PureData for Analytics. They also extend to non-IBM data sources such as Oracle, Teradata, and Microsoft SQL Server; cloud sources such as Amazon Redshift; and open-source solutions such as Hive.

Because of the robust application compatibility and data integration enabled by the Common SQL Engine, you can write a query without necessarily needing to know where the queried data resides. As part of a single query you could pull data from an IBM data store such as Db2 and join it with data from a non-IBM data source. This feature is particularly powerful as part of a data lake architecture because it allows you to choose the optimal place to store your data without having to worry about how to query it later.

Learn more

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Dive deeper into each of the offerings with a free trial or schedule time to speak with one of our data management experts about your questions for free.

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