



IBM Common SQL Engine

*Gain flexibility and protect your
data management investments*

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.

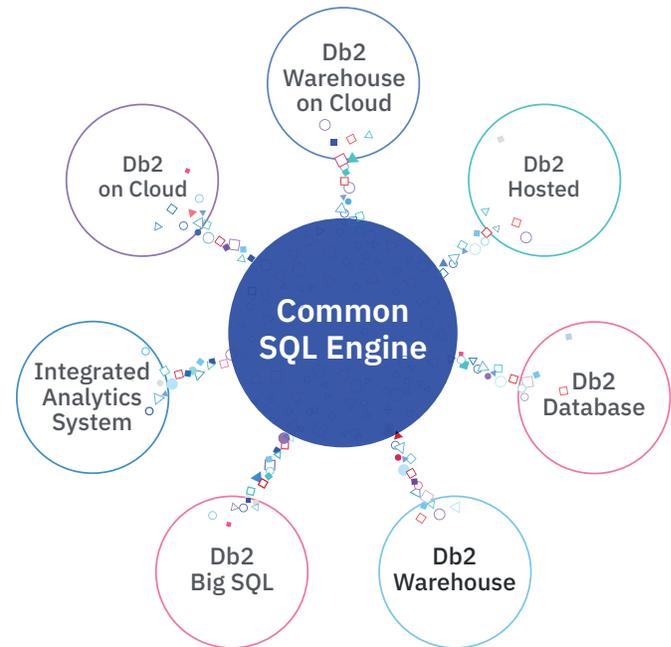
Although the Common SQL Engine is the heart of query and application compatibility, this compatibility extends beyond data repositories and analytic applications—it includes security, governance, management, data movement and other applications as well.

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.

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 competitive data sources such as Oracle, Teradata, and Microsoft SQL Server; cloud sources such as Amazon Redshift; and open-source solutions such as Hive.

Write once, run anywhere with the Common SQL Engine



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.

Flexible licensing

Application compatibility and data integration can save time, effort and expense, but flexible licensing can save you money directly. Because you can't necessarily predict what your data management needs will be a year or even a month into the future, it's important to have resources that can grow with you. Flexible licensing allows you to purchase one license model and deploy when and where you want as your data architecture evolves.

IBM calls this FlexPoints licensing—FlexPoints purchased can be applied towards different data management offerings. The IBM hybrid data management on-premises components (Db2 database, Db2 Warehouse, Db2 Event Store, Db2 Big SQL) and the cloud offerings (Db2 on Cloud, Db2 Warehouse on Cloud, and Db2 Hosted) are available as part of FlexPoints licensing. You can build one deployment that uses a certain number of FlexPoints and swap out components later to make an entirely new deployment without changing your costs. If you need to scale up, simply purchase more FlexPoints.

Flexible licensing is not only about simplifying the adoption and exchange of platform capabilities as your needs evolve. It can also make your business more agile, because your data managers can get the tools they need quickly, without going through a lengthy procurement process. And flexible licensing helps optimize your data management expenditures, because you pay only for what you need at any given time.

Learn more

Stop paying the price for flexibility. Protect your data management investment with the Common SQL Engine and FlexPoints licensing for the IBM Hybrid Data Management Platform. You'll be able to make timely shifts to meet needs driven by your organization or the market as a whole.

Learn more about the [Hybrid Data Management Platform](#) that uses the Common SQL Engine or [dive deeper](#) into each of the offerings.



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