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Which database is best for data warehouse

The enormous amount of data and information that a company generates and consumes today can become an organizational and logistical nightmare. Storing data, integrating it and protecting it, so that it can be accessed in a fluid, fast and remote way, is one of the fundamental pillars for the successful management of any company, both for productive reasons and for being able to manage and give an effective response to the customers. Good big data management is key to compete in a globalized market. With employees, suppliers and customers physically spread across different cities and countries, the better the data is handled in an organization, the greater its ability to react to market demand and its competitors. Databases are nowadays an indispensable pillar to manage all the information handled by an organization that wants to be competitive. However, at a certain point of development in a company, when growth is sustained and the objective is expansion, the doubt faced by many managers and system administrators is whether they should continue to use a database system, or if they should consider the leap to a data warehouse. When is the right time to move from one data storage system to another? As a company begins to accumulate terabytes of big data from multiple sources and growth forces multiple tasks and analysis with this information, having different databases scattered can become a big competitive burden. Having to query each database independently, without being able to cross-analyze seamlessly, is inefficient, insecure, slow, and costly. When the integrated storage of all data is a pressing need for the development and expansion of a company, the solution recommended by leading system analysts is to implement a data warehouse. What is a data warehouse? A data warehouse (also known as DWH) is a database designed to store, filter, extract and analyze large collections of data (suppliers, customers, marketing, administration, human resources, banks, etc.). The particularity of these systems is that they are specifically developed to work with big data, allowing to visualize and cross analyze the information simultaneously, without having to mix and consolidate results from different data sources. A data warehouse is designed to separate big data analysis and query processes (more focused on data reading) from transactional processes (focused on writing). This approach therefore allows a company to multiply its analytical power without impacting its transactional systems and day-to-day management needs. The data warehouse is a highly recommended tool when you want to make sure that inexperienced users in the management of systems and databases don't put at risk the information of a company. Given the three-tier architecture used in these solutions, DWH end users can query their data stores without touching or affecting the operation of the system in any way. In short, the architecture of a data warehouse is based on three levels: Lower level - is the server, where the data is loaded and stored. Intermediate level - contains the analysis engine used to access the data. Upper level - the front-end client that presents the results of the analysis using data visualization tools. Benefits of a data warehouse If we were to summarize the benefits of a data warehouse, we could say that it is an indispensable tool for any modern and ambitious company, as it allows decision makers to access data quickly through business intelligence tools, SQL clients and other analytical applications. In addition, they are characterized by: Separating processing and analysis of big data from transactional databases, which improves the performance of both systems. Consolidating big data from different sources. Bringing greater quality, consistency and accuracy to the data handled by a company, resulting in better decision making by its management team. Since all the information is deposited in the same central warehouse, a higher quality of the data is guaranteed, and the time required for the generation of reports and analyses is optimized. Facilitating the elimination of duplicate records, errors and inconsistent information. Increasing consistency in internal reporting by standardizing and centralizing the data sources handled by different departments. Basic differences between a database and a data warehouse Database Data Warehouse Designed to store data from a very limited number of sources. Designed to store data from an unlimited number of sources. Efficient for processing transactional operations. Efficient for analyzing and aggregating large volumes of data. Its capacity for data analysis and integration is limited. Allows to visualize data and extract reports from complex data quickly. Fast and less costly implementation. More costly and laborious initial implementation. Ideal to see the current state of a company. Ideal tool to study the evolution of a company and make medium- and long-term projections. In the cloud or on a local server? Data warehouses can be installed on a corporate server or in a cloud warehouse. The latter formula is becoming increasingly common, as it allows companies to address in a more practical and scalable way the growing need to access more and more data. Among the advantages of having a data warehouse in the cloud, the following stand out: Data security and protection throughout its life cycle. Cloud service providers need to take the daily update of their security and backup protocols to the next level. The scalability of the storage system is much easier. DWHs in the cloud are cheaper, as they do not entail high up-front hardware costs and proprietary software licenses. The installation and commissioning of a data warehouse in the cloud is generally faster. Cloud services connect more easily to other services in the cloud, which in turn results in greater system efficiency. At the same time, installing a data warehouse on a local corporate server also has its advantages: Cloud solutions tend to be based on servers that are very far from the end customer, so there can sometimes be a slight delay in consulting the data that some companies cannot afford. Speed and latency on local servers can be better managed internally, at least in business cases that are confined to a particular geographic location. There is greater control over server security and data access, which for some companies is an absolute priority. If a company has a highly qualified IT team and state-of-the-art hardware, a fully internally controlled data warehouse is a winning choice. In an era where data is the most valuable resource any business has, warehousing solutions are more crucial than ever. A data warehouse is a critical database for supporting data analysis and acting as a conduit between analytical tools and operational data stores. Data warehousing solutions often include a range of useful features for data management and consolidation. You can use them to extract and curate data from a range of environments, transform data and remove duplications, and ensure consistency in your analytics. Some data warehouse even come with things like machine learning algorithms and AI built-in. When delivered through the cloud, warehouse solutions are even more flexible. Like other as-as-a-service environment, business leaders can add and remove features to suit the changing needs of their company. The question is, which cloud data warehousing services are best? Amazon Redshift is one of the most popular data warehousing solutions on the market today. The service powers the analytical initiatives of countless leading businesses, including startups and Fortune 500 companies alike. Some of the biggest brands using Redshift today include Intuit, Lyft, Yelp, and even McDonald's. One of the best things about Redshift is that it integrates perfectly with your data lake and AWS environment. Redshift allows developers and business leaders to query vast amounts of semi-structured and structured data from a host of settings. What's more, Redshift's performance benefits from Amazon's incredible AWS infrastructure, so you know you're going to get a great user experience. For data outside of your S3 data lake, you can use AWS Glue to extract, transform, and load data into the warehouse too. Snowflake is a leading data warehousing solution that offers a variety of choices for public cloud technology. With Snowflake, you can make your business more data-driven, enabling you to create amazing customer experiences in turn. Unlike other data warehousing services, Snowflake also comes with per-second pricing. The convenient pricing structure of Snowflake's technology means that you only pay for what you use. Snowflake's reliable architecture simplifies and improves the data pipeline, while reducing unnecessary complexity. You also get self-service access to all the extra functionality that you need. Google BigQuery is a component of the Google cloud platform environment. This highly scalable and serverless cloud data warehouse is ideal for companies that want to keep costs low. If you need a quick way to make informed decisions through data analysis, BigQuery has you covered. BigQuery sets itself apart by its accessibility. In particular, querying data with SQL and Open Database Connectivity is easy with this offering. Additionally, you can efficiently run your analytics environments with a three-year TCO that's up to 34% cheaper than other cloud data warehouse alternatives. Integration with machine learning tools from Google is another key differentiator if you're interested in stepping into the artificial intelligence environment. The IBM Db2 Warehouse is a fantastic relational database solution that delivers high-quality analytics and data management solutions to businesses worldwide. The operational database thrives on delivering actionable insights and data availability to companies that need it most. There's also support for a selection of operating systems. Db2 from IBM also integrates with the in-memory columnar database engine from IBM. This is a huge benefit for companies in need of a high-performance database solution. Business leaders can initiate a cloud deployment using either AWS or the IBM cloud. There's also an on-premise version of the Db2 warehouse available. Microsoft Azure Synapse is the evolved and updated version of Microsoft Azure SQL Data warehousing. Synapse is a state-of-the-art analytics solution that combines enterprise data warehousing with the latest in big data analytics. With Microsoft's technology, you can easily query data according to your individual needs. There's access to both provisioned and serverless on-demand resources too. What's more, Synapse enables you to unlock the power of machine learning and business intelligence solutions as part of your full data framework. Microsoft also has some of the industry's most advanced security and privacy features for warehousing in its arsenal. The Oracle Autonomous Data Warehouse solution offers businesses an easy-to-use and accessible system that scales with their operations. Intended to provide fast and elastic query performance with no need for endless administration, Oracle is a great choice for beginners and existing Oracle fans alike. For a fully managed cloud service that makes provisioning a data warehouse easy, look no further than the quick performance of this offering. What's more, Oracle's autonomous data warehouse is highly elastic, allowing companies to expand and update their computing and storage capacities as their businesses change. You only need to pay for the resources that you consume, and everything integrates with a spectrum of business analytical and IoT tools. SAP is a popular name in the world of business analytics and data development. The SAP data warehouse cloud is perfect for businesses that want to make more intelligent business decisions. This enterprise-ready data warehouse combines all of your unique data sources into a single environment, allowing you to enhance the security and credibility of your information. SAP's data warehousing semantic layer also helps to make analytics easier for users with persona-driven and analytical warehouse information. There's even instant access to application data thanks to prebuilt adapters from IBM. Better still, SAP data warehousing is elastic, flexible, scalable, and open, making it a good choice for businesses of all sizes. Yellowbrick takes a unique approach to cloud data warehousing solutions by offering access to data solutions for the hybrid cloud. On a mission to make data warehousing and analytics simpler for every business, Yellowbrick delivers a turnkey appliance for optimised analytics. Enterprises in the Yellowbrick environment can run any ad hoc queries they like, alongside large batch queries and business reports too. There's also Yellowbrick assisted support available for businesses too. This provides 24/7 predictive monitoring, ensuring the continued health and availability of the warehouse. Teradata is a market leader in the world of data management and warehousing. For over 35 years, the company has helped businesses develop and maintain a competitive edge. Teradata also has one of the world's most powerful database environments. Because of this, the company can serve some of the biggest and most competitive organisations in the world. Teradata offers an integrated 360-degree insight into your data, pulled together from a range of sources. There's also access to the Teradata QueryGrid for actionable big data insights too. What's more, you can deploy Teradata on IntelliCloud (from Teradata), on-premise or on public, private, or hybrid cloud infrastructure. Panoply is an ETL-less and easy-to-access data management and warehousing system. Built exclusively for the cloud, Panoply delivers integrated visualisation features and a range of storage optimisation algorithms to help businesses thrive. You can also sync and store data from Panoply from over 80 different sources, and explore your data using SQL. Panoply works seamlessly with a wide selection of other business intelligence and analytics tools too, including Salesforce and HubSpot. This makes it easier for businesses of all sizes to unlock the power of better data-focused decisions.

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