Report

An Open Source Software (MySQL)

MySQL is the world's most popular open source database software owned by oracle. They offer "MySQL Standard Edition" as a free software which can be used by anyone, but they are offering an "MySQL Enterprise Edition" and "MySQL Cluster Carrier Grade Edition for sale. Besides, there are some editions contain a number of features which designed to suit large enterprises needs.[1]

MySQL in now leading database choice for web-based applications. Oracle drives MySQL innovation, delivering new capabilities to power next generation web, cloud, mobile and embedded applications.[1]

Looking at MySQL, we can notice that it has some capabilities which enhance using it rather than any other database softwares. MySQL database server provides unlimited scalability, capability to handle deeply embedded applications and to run massive data warehouses holding big amount of information. Also, platform has the capability to support Linux, UNIX, and Windows. Besides, the open source nature of this software allows complete customization for any one wants to add unique requirements to the database server.[2]

Moreover, MySQL offers one of the most powerful transactional database engines on the market. It provides transaction support, distributed transaction capability, and supporting multi-version transaction. Besides, the high performance of this software and its queries means that there is a fast data insert capability, and strong support for specialized web functions like fast full text searches. Also, MySQL scales up into a huge amount of data through data warehousing environments, and has the capability and the strength to handle both web and business intelligence applications.[2]

MySQL, is like other open source softwares, has advatages and disadvantages. Some of these advantages are: it is very easy to install, to setting up an implementation, and to work with the database. Also, it offers exceptional security features which ensure a high data protection, a powerful mechanisms for managing database, a safe and secure connections, and a backup and recovery utilities. The most important point is the low cost, it's significantly less expensive than most other database options on the market, so the unique cost and support model provide a unique combination of open source freedom and trusted software with support.[2, 3]

On the other hand, disadvantages of using MySQL include the poor performance scaling so with high concurrency levels it needs to look into an alternative. Its functionality tends to be less than many other database system because of the depedency on addons. Besides, the database isn't fully SQL-compliant, and tends to be limited in areas including data warehousing, fault tolerance, and performance diagnostics, so developers may become frustratrated particularly if they're used to a more full-featured alternative.[3]

Organizations are finding that they can achieve very high levels of scalability, availability and performance, delivering a high availability solution in cost-effectively, besides, with MySQL replication, organizations can incrementally scale out their infrastructure to meet growing capacity demands. Organizations can achieve faster time to market and reduce costs while deploying virtualized MySQL environments, either on premise or in the cloud. So, MySQL is really useful for organizations.[4]

References:
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[3]: Mack, J. (2014, May 28). Five Advantages & Disadvantages Of MySQL. Retrieved November 3, 2015, from https://www.datarealm.com/blog/five-advantages-disadvantages-of-mysql/
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