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An Analysis of Database from Traditional Database Towards Hana in Business Environment

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Abstract— Internet becomes a vital role in this century. With the advent of new technology and development of software, the need for database also plays a vital role. The Technology such as Cloud Computing, Bigdata emphasis for large volumes of data, and industry slowly started to ponder on Hana. In this paper, we discuss about various databases and its usage and how hana become popular among the existing databases.

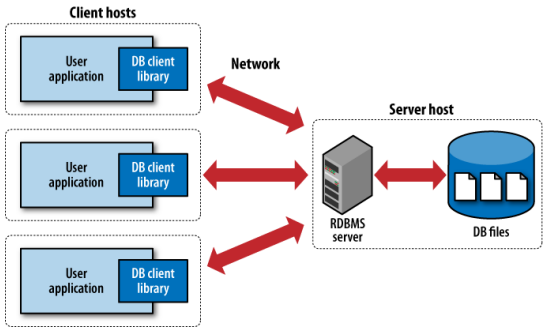
Keywords— Internet, Bigdata, Hana, Cloud Computing

I. INTRODUCTION

Database is a collection of data. Traditionally, dbms was successfully used, later Rdbms became powerful. It also provides a persistent, disk-resident repository of shared data but the persistent data are relations of records instead of files. Large volume of data cannot be handle by traditional dbms and its failed. So in order to handle large volume of data, big data was developed .Big data focuses on terabyte and gigabytes of data. Cloud computing also used to handle large databases. In cloud, based on private and public organizations it is used. NoSql, mongodb also used. SAP Hana is widely used and became a popular in this century.

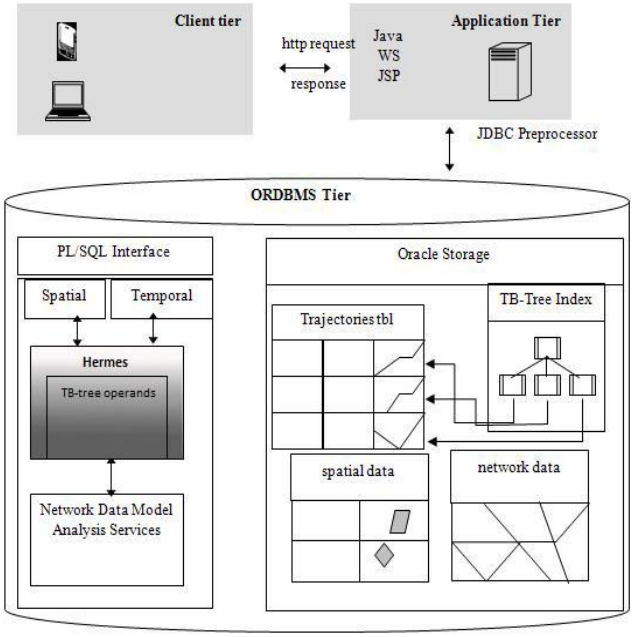
1.1.RDBMS

A relational database management system (RDBMS) is a database management system (DBMS) that is constructed on a relational model in which data is stored in the form of tables and the relationship among the data is also stored in the form of tables.



1.2. ORDBMS

Object relational databases management system contract with vary large data with great complexity. Its supports both RDBMS and ORDBMS model. ORDBMS support classes, objects and inheritance. The main vendor of this ORDBMS are Microsoft Corporation, Oracle Corporation, IBM and SAP



1.3 Cloud Computing

Cloud computing plays a vital role in the market. Many organizations started to use cloud because of huge storage of data. Private and public clouds are started to use .But, when focusing for the security, it is less and many are working for it. SAS, PAS, IAAS are considered as a major services.

1.4.Big Data

Since large volumes of data cannot be handled by the database, thereby new technology hit into the market to handle terabyte of data. It is called as big data.[1][2]

1.5 HANA

HANA is a column –oriented relational database management system. It is developed by SAP. Its main function is database server which is used to store and retrieve large amount of data. Its also used to perform predictive analysis, text streaming, spatial data processing ,text search and streaming analytics.

II. BACKGROUND STUDY

According to Evgeniy Grigoriev[2] , A novel approach has been found to extend the relational Database management system for creating expressive heterogeneous business model.

Hamid R Motahari et al [3] proposed a layered architecture and conceptual architecture for virtual business operating environment Jay C. Hsu[4] proposes a framework for leveraging an array of enabled management technologies to help business leaders to transform their business.
Christof Weinhardt et al[5] offered a business model framework for Clouds. It subsequently reviews and classifies current Cloud offerings in the light of this framework.

III. POWERFUL TOOLS USED IN THE MARKET

Sisense
It is the most popular business software review platforms. Sisense capable to effectively simplify complex data analyses, and make big data insights accessible even for startups and small companies.

BIRT
It is a flexible, open source, and 100% pure Java reporting tool for building and publishing reports against data sources ranging from typical business relational databases, to XML data sources, to in-memory Java objects.

DUCEN
Companies need to keep an eye on every revenue generating event and cost saving opportunity while improving customer satisfaction and retention. By combining historical data with real-time operational data for analysis, business users can make more informed, proactive decisions. However, to achieve these efficiencies, data must be available real-time.

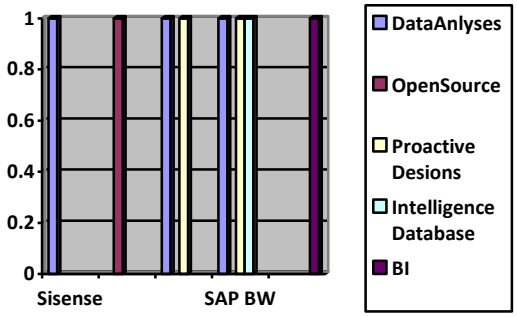
INSIGHTSQUARED
Successful sales strategy is dependent on understanding the customer. But for small and medium businesses building up the kind of intelligence database needed can be time consuming and take staff away from the task of actually selling. It can be many months before the implementation of a traditional sales intelligence platform bears fruit.[7][8]

SAP Business Intelligence
Predictive analytics give your decision makers the insight they need to predict new developments, capitalize on future trends, and respond to challenges before they happen. SAP's market-leading combination of real-time business intelligence (BI) and predictive analytics make it easy for you to extract forward-looking insights from Big Data, harness the power of R, and create stunning data visualizations with ease.[6]

WebFocus
The WebFOCUS Business Intelligence and Analytics platform empowers everyone in your organization to make smarter, more confident decisions. WebFOCUS extends to your customers and partners, too, giving them easy access to analytic apps and tools from any browser or mobile device.

SAP NetWeaver BW
Quickly Capture, store, and consolidate your vital information with our real-time data warehouse platform. Tightly integrate your warehousing capabilities for a single version of the truth, decision-ready business intelligence, and accelerated operations. Supercharge your data warehouse environment with SAP Business Warehouse powered by SAP HANA.

IV. COMPARISON OF TOOLS



V. CONCLUSION

In this Paper, the relational database towards hana was discussed and the various tools used for analyzing markets and how data are analyzed and how customers satisfaction is important are seen.

VI. FUTURE ENHANCEMENT

In further Paper, how hana supports the business environment and how business analytics are performed and his performance criteria are measured.

References

[1] Madhumathi.S, Kanimozhi.N, Subha.C," Issues & challenges in Big Data mining & study of tools used in Big Data Analytics", International Journal of Trend in Research and Development.
[2] Suchitra , NikitaSri, Narayanan," International Research Journal of Engineering and Technology",vol 4, Issue 8
[3] Hamid R Motahari-Nezhad, Bryan Stephenson, Sharad Singhal, HP Laboratories, HPL-2009-23
[4] Jay .C. Hsu , "Enabling technologies for world-class business operations", AT& T Technical Journal, Volume 73,Issue 1.
[5] ChristOfWeinhardt," Cloud Computing – A Classification, Business Models, and Research Directions", Business &Information Systems Engineering, OCT 2009,Volume1,Issue 5, pp 391-399
[6] Hsinchun Chen,"Business Intelligence and Analytics: From Big Data to BIG Impact", MIS Quarterly Vol. 36 No. 4, pp. 1165-1188/December 2012 1165.
[7] Ibrahim Abaker Targio Hashem ," The rise of "big data" on cloud computing: Review and open research issues", Volume 47, January 2015, Pages 98-115.
[8] Xindong Wu ," Data mining with big data", Published in: IEEE Transactions on Knowledge and Data Engineering (Volume: 26, Issue: 1, Jan. 2014)

