Integration of R with Big Data Discovery Platform: 1010data Introduces R1010

Abstract

In March of 2015, 1010data announced the release of R1010, a new R package that integrates directly with 1010data's Big Data Discovery platform. This ENTERPRISE MANAGEMENT ASSOCIATES® (EMA™) impact brief details the announcement and recognizes 1010data as an innovator in the big data analytics and data discovery space.

1010data Announces R1010 for Advanced Analytics

On March 12, 2015, 1010data, Inc. (www.1010data.com) announced the release of R1010. The R1010 release combines the effectiveness of the freely-available and widely-used R language with the processing power of the Big Data Discovery platform, introducing an interface to utilize the data and advanced analytics within 1010data directly via the R console.

Based in New York City, 1010data is a privately-held company that offers a cloud-based software platform and associated services for business analytics and database warehousing. The 1010data Big Data Discovery platform takes advantage of columnar database technology to provide interactive analysis on very large and complex datasets, delivering solutions that emphasize establishing an enterprise-wide single version of truth and maximizing the business value of big data assets. In addition to the platform, 1010data provides a library of pre-built analytic applications. 1010data has developed a web-based service along with its underlying software that enables the acquisition, organization, management, and analysis of high volumes of complex and interrelated data. The 1010data service also allows for interenterprise analysis, which enables users to share data and analytics with partners and other stakeholders.

1010data was founded in 2000 by two veterans of large-scale Wall Street data systems. Its products are used in a wide variety of industries, including financial services, retail, consumer packaged goods, telecom, and health care. 1010data has more than 700 customers worldwide that include companies such as NYSE, P&G, JPMorgan Chase, and Coca-Cola.

Key Observations

- Advantages for Data Scientists Data scientists who are familiar with R and its open-source statistical functions can now combine them with 1010data's native ability to handle big data, storing queries as R-strings and executing them against 1010data-connected data frames.
- **Browsing and Session Management** R Interactive Console, which is included in the R1010 package, provides functions to establish and manage 1010data sessions and browse 1010data folders.
- Additional R Functions Included The R1010 package incorporates R Query Interface (RQI) functions that provide a native R experience for query development. In addition, data scientists can integrate CRAN (Comprehensive R Archive Network) packages using the full R feature set to perform complex statistical analysis.
- **Details** For more details, go to https://www.1010data.com/company/press_releases



EMA Perspective

EMA's recent end-user research indicates that field of big data initiatives is moving away from the "classic" data scientist and the manual effort of hand coding. However, almost half of projects mentioned by EMA's respondents still utilize some form of manual development to implement their big data initiatives. In fact, the percentage of data scientists' consumption of big data projects increased slightly from 2013 to 2014. Data scientists comprise an important, albeit relatively small, group of big data users, especially in large companies. The R language is widely used among data scientists and statisticians, and R's popularity has increased in recent years. Given today's emphasis on improving big data projects' time to value and reducing total cost of ownership (TCO), it makes sense to equip data scientists with the best tools possible that enable them to do their jobs quickly and efficiently. 1010data's R1010 release is entering the market as an important tool in the data scientists' tool belt.

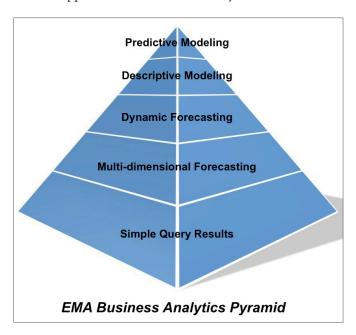
Since the company's founding, 1010data has provided an alternative to traditional data warehousing strategies. In situations in which conventional approaches to expanding an existing environment show themselves to be inflexible and expensive, 1010data offers a way to supplement or replace that environment. Unlike many other enterprise data warehouses (EDWs), 1010data is a cloud-based solution—an analytical platform as a service (APaaS) that delivers a comprehensive solution as a single cloud-based service. With 1010data Data Sharing & Monetization, companies can take advantage of data-sharing opportunities through the secure sharing of data and analytics with partners while retaining full control over access, permissions, and usage rights granted to all members of other groups.

With the R1010 release, 1010data adds to its offerings at the higher levels of the EMA Business Analytics Pyramid. In addition to traditional analytics, which includes simple query results, multi-dimensional analysis and dynamic forecasting (what-if analysis), 1010data supports more advanced analytical

workloads such as descriptive and predictive modeling, and R1010 further broadens the types of workloads supported within their data discovery platform.

1010data's R1010 release combines the ability to analyze extensive volumes of data with the wide-ranging set of R language statistical functions that are well-known to the R community. This tool combination enables data scientists to build analytical models on large scale data faster than before, thus enabling improvements in time to value and TCO.

With an increase of more than 200 customers in the past year and a data center outside of the U.S., 1010data is establishing itself as a force to be reckoned with in the world of data warehousing. The introduction of the R1010 release further differentiates the company and underscores its presence as an innovator and leader in the enterprise data warehousing space.



About EMA

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