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A leading US steel producer sets a new standard with enhanced data management and business intelligence

By partnering with Capgemini, this prominent steel manufacturer leverages Oracle Database 19c and Power BI to advance its technological framework, leading to signi icant industry innovation

A leading steel producer in the United States recognized the need to upgrade its database infrastructure and reporting systems to enhance data performance, security, and business intelligence capabilities.

Client: Leading US steel producer

Region: United States

Industry: Manufacturing

Client challenge: The company wanted to improve the performance and expand the functionalities of its database infrastructure while adjusting its reporting system to meet evolving business intelligence needs.

Solution: Partnering with Capgemini, the steel producer upgraded to Oracle Database 19c and implemented a tailored Power BI reporting system, significantly improving profitability, customer loyalty, and operational excellence.

Benefits:

- Automated processes reduce manual workload, streamline operations, and boost productivity
- Lower total cost of ownership through reduced maintenance and more efficient resource usage
- Faster data processing and availability improve customer service and delivery timelines
- High availability and disaster recovery features minimize downtime
- Improved scalability meets future demands, helping the company remain competitive

A leading steel producer in the United States recognized the need to upgrade its database infrastructure and reporting systems to enhance data performance, security, and business intelligence capabilities.

Partnering with Capgemini, the company launched a project to improve the capabilities of its database infrastructure and adjust its reporting system.

After reviewing the organization's objectives and the solutions available, the partners decided to perform a strategic upgrade to Oracle Database 19c and implement a robust Power BI reporting solution. To do so, the company and Capgemini formed a single, cohesive team that could coordinate regularly to bring their shared experience to bear.

Following a dual approach

Capgemini swiftly deployed a team of database administration and Power BI experts, who collaborated with the steel producer's stakeholders to develop a project roadmap and design a scalable solution. This collaborative team created a plan for the database upgrade that would enable extensive replication using the Oracle Golden Gate solution. In addition, Capgemini used Power BI to create a reporting platform and rapidly developed a standardized template approach for faster development and adoption by users. Once the project team gained approval for this plan, they executed the upgrade and implemented the tailored Power BI system.

This dual approach modernized the company's database infrastructure while enhancing its business intelligence and reporting capabilities. The solution was specifically adapted to cater to the unique needs of the steel production industry. This was done by adopting a model-based approach to ensure that users would have the ability to modify reports as needed and create local versions to suit a variety of requirements.

Enhanced performance, security, and insightful decision-making

With the integration of Oracle Database 19c, the company and Capgemini have combined data engineering with Power BI to provide users with the data needed to make decisions more efficiently. The upgraded infrastructure now aligns with the latest industry standards, offering enhanced performance, security, and scalability. The Power BI reporting system makes data replication near instant while offering a data platform that grants users access to reports to transform the company's approach to business intelligence and enable real-time insights that drive strategic decisions.

To do so, Oracle Database 19c manages large volumes of data while ensuring a high degree of security. Meanwhile, Power BI seamlessly connects to the Oracle Database to access and retrieve data. In order to visualize data more effectively, the solution generates interactive dashboards and reports that offer real-time insights that guide informed business decisions. This input informs operational strategies, creating a feedback loop for ongoing refinement.

This integration enables the company to leverage real-time data for strategic decisions while maintaining a robust and secure data infrastructure. As the steel producer continues to harness these advancements, it is well-positioned for sustained growth and innovation in the competitive steel industry, with Capgemini as a key partner in its ongoing technological journey.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

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