

OPTIMISING DATA WAREHOUSE PERFORMANCE WITH WHERESCAPE AND ORACLE

INTRODUCTION:

A leading organisation using WhereScape for its data warehouse and Oracle as its data platform faced critical performance challenges.

Processing times had escalated to 13 hours per job, delaying data availability and impacting business operations.

CLIENT BACKGROUND:

- Energy
- Netherlands
- Performance Tuning Oracle, Data Modelling, Best Practice and Training

The client implemented WhereScape to manage its data warehouse, utilising Oracle as the underlying data platform. As data volume increased, performance issues arose, making it difficult to deliver timely insights at the start of the working day.

CHALLENGES:

The organisation encountered several key challenges:

- Extended job processing times of 13 hours, delaying critical data availability.
- Performance bottlenecks impacting CPU, I/O, memory, and middleware.
- Inefficiencies in data modeling techniques and code execution.
- Need for long-term improvements to support the platform's growth.

ENGAGEMENT:

The Engaging Data team collaborated with the client's Data, DBA, and Infrastructure teams to:

- Conduct in-depth workshops to analyze performance issues, including reviewing code, data models, and system architecture.
 - Identify bottlenecks across CPU, I/O, memory, and middleware to determine areas for optimization.
 - Implement hardware adjustments,
- particularly improving I/O performance to enhance data processing speed.
 - Perform a peer code review to ensure efficiency and best practices in development.
 - Conduct performance testing after optimizations to validate the improvements.
 - Share best practices with the client, integrating them into the ongoing development process.

CONCLUSION:

By identifying and addressing performance bottlenecks, Engaging Data significantly optimized the client's Oracle-based data warehouse.

The project not only restored operational efficiency but also positioned the client for future scalability and growth.

RESULTS:

Through targeted optimisations, the Engaging Data team delivered substantial performance improvements:

- Processing times reduced from 13 hours to just 90 minutes per run—an 88% reduction.
- Enhanced hardware efficiency, particularly in I/O operations.
- Improved data modelling and code execution, enabling faster, more reliable processing.
- Integration of best practices into the client's development workflow, ensuring sustained performance gains.

LET'S MAKE YOUR ORGANISATION A SUCCESS STORY!

GET IN TOUCH NOW:

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