

# VLDB CASE STUDY

## THE REQUIREMENT

A British supermarket company required an in-depth analysis of their Teradata appliances to try to understand any potential areas in which they could improve efficiency of tasks run on a daily basis. Specific key areas that were asked to be investigated were peak morning periods, user SQL efficiency, and workload management.

## THE METHOD

VLDB initially looked into system performance usage and potential, including CPU, memory and disk throughput. By then looking into specific user details, including session activity, query performance and CPU utilisation, it was possible to find which tasks were typically the most problematic. Further analysis into user configurations and workload management settings aimed to find any potential improvements that could help alleviate slowdowns during busy periods.

## THE DELIVERABLES

Once the system performance and user activity analysis was complete, VLDB Solutions provided an in-depth report on both Teradata appliances. This report outlined typical behaviour seen over a week, whilst prioritising peak periods during the morning, and advising how key areas may be improved upon.

## THE BENEFITS

*“Monday Morning analytical queries going from 10 to 20 minutes to less than 1 to 2 minutes with efficiency improvements identified.*

*Store and Supplier based queries getting sufficient priority during busy times to cause no impact to the service even during Christmas Trading.*

*Workload management effectively managing busy Monday morning queries alongside operational queries with no detrimental impact to both sets of users.*

*No calls logged by operational or analytical users about poor performance over the Christmas period despite extended opening hours of stores and contact centre.”*

- Phil Oldfield, Data Warehouse Manager at Iceland Foods Ltd.

TERADATA DATABASE &  
**SYSTEM ANALYSIS**

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