

Space Resources Statement

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Supported by LM

1. Background

Space data is multi-dimensional and complex, yet it is often scattered and lacks comprehensive summary information.

2. Solutions

This system enables multi-dimensional data drill-down by space type and building, providing an intuitive overview of space status. It expands analytical dimensions through integration with other systems, allowing for a comprehensive assessment of utilization efficiency. The solution supports richer evaluation of room usage patterns to inform data-driven decision-making. By incorporating localized academic calendars and grouped aggregation methods, it offers additional analytical perspectives. Parameterized filters facilitate dynamic interactions and filtering capabilities within reports, enabling customized data exploration.

3. Outcomes and Benefits

By establishing a unified space resource management platform, we have integrated previously fragmented information to achieve centralized and dynamic visualization of resource data. This has fundamentally transformed the inefficient manual processes of exporting, consolidating, and verifying records.

The platform now provides clear and immediate visibility into key usage metrics—including total availability, status, utilization rate, and idle rate—delivering efficient and accurate data support to management for resource allocation optimization, budget planning, and strategic decision-making.

4. Replicability and Promotion Value

Through connecting multiple data tables, reducing the complexity of individual tables and enabling multi-dimensional data to be displayed within a unified framework. This integration supports decision-making from various perspectives.

Additionally, the introduction of customizable parameters enhances flexibility in data utilization, allowing for dynamic analysis and tailored reporting.

5. Next Steps

To enhance our data mining processes by introducing interactive

dashboards that allow users to drill down from summarized data into detailed explanations and underlying datasets, enabling more granular analysis.

Personnel data analytics will be expanded to include broader dimensions, building a comprehensive personnel-space correlation model to support deeper decision-making.