# DRAFT

# Interactive Exercises: Practicing Cube Design Choices in OneStream

## Exercise 1: Choosing Between Monolithic and Super Cubes

Scenario:  
You are designing a OneStream solution for a retail company with 150 stores across North America. Each store reports monthly sales, inventory, and staffing data. The company wants to analyze performance at both the store and regional levels.

Task:  
Decide whether to use a monolithic cube or a super cube structure. Justify your choice based on scalability, data granularity, and future extensibility.

Reflection Question:  
How would your cube design choice affect performance and maintainability as the company expands to 300 stores?

## Exercise 2: Designing Paired Cubes for Financial and Operational Data

Scenario:  
A financial institution wants to track customer transactions and account balances separately but analyze them together for risk assessment. The data structures are different and updated at different frequencies.

Task:  
Design a paired cube setup that allows independent management of transaction and balance data while enabling combined analysis. Describe how you would manage shared dimensions and data synchronization.

Reflection Question:  
What challenges might arise in maintaining consistency between the paired cubes, and how would you address them?

## Exercise 3: Implementing Specialty Cubes for Survey Data

Scenario:  
A healthcare organization collects patient satisfaction surveys quarterly. This data is not part of the regular financial reporting but is used for quality improvement and compliance reporting.

Task:  
Design a specialty cube to store and analyze survey data. Explain how this cube would differ from standard cubes in terms of data load, dimensions, and reporting.

Reflection Question:  
How would you ensure that the specialty cube remains performant and relevant as survey formats evolve over time?