



Hands-On Learning Activity: Case Study Application in Financial Modeling



Hands-On Learning activity will walk you through scenario and sensitivity analysis using a simplified hotel budget case. You'll simulate risks, compare assumptions, and explore different model types to understand financial outcomes.



Objective



To perform a case-based financial analysis using scenario and sensitivity modeling and compare different financial model types for strategic planning.

Instructions:



- ▶ Use Excel or Google Sheets for calculations and document your responses to reflective prompts in a Word file.

Step 1: Review the Hotel Budget Model



- ▶ Use the following base assumptions:

- Monthly Revenue: \$500,000
- Monthly Expenses: \$350,000
- Net Income: \$150,000



- ▶ Assume fixed costs are \$250,000 and variable costs are 20% of revenue.

Step 2: Conduct Scenario Analysis



- ▶ Create two alternative scenarios:
 - Scenario A: Revenue drops by 15% due to off-season
 - Scenario B: Expenses increase by 10% due to energy costs
- ▶ Calculate new Net Income in each case and compare with the base model.

Step 3: Conduct Sensitivity Analysis



- ▶ Test how sensitive Net Income is to a 5% change in either:
 - Room Pricing (impacting Revenue)
 - Maintenance Costs (part of Expenses)
- ▶ Recalculate and observe the change in Net Income for each adjustment.

Step 4: Compare Financial Model Types



▶ Use AI or your own notes to define these models:

- Forecasting Model

- Budget Model

- Valuation Model

▶ Write a short comparison: What is each model used for, and how do they differ in inputs, structure, and outputs?

Step 5: Reflect on Strategic Insights



▶ Write 6–8 sentences on:

- Which scenario created the biggest risk to profitability?
- What did sensitivity analysis reveal about model priorities?
- When would you use each model type in a real organization?