

6. Risk Assessment Practice

Activities:

• Tool: Google Sheets

• Task: Calculate ALE for a mock scenario.

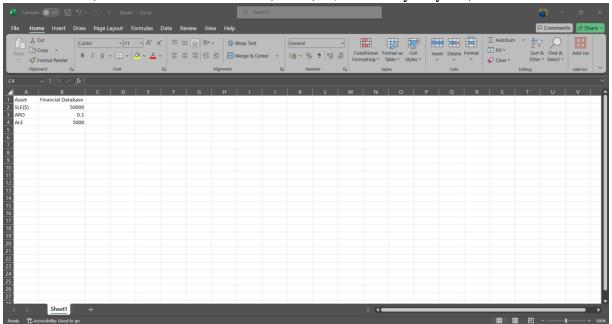
Mock Scenario

Let's use this example:

• Asset: Financial Database

• SLE (Single Loss Expectancy): \$50,000

• ARO (Annual Rate of Occurrence): 0.1 (i.e., once every 10 years)

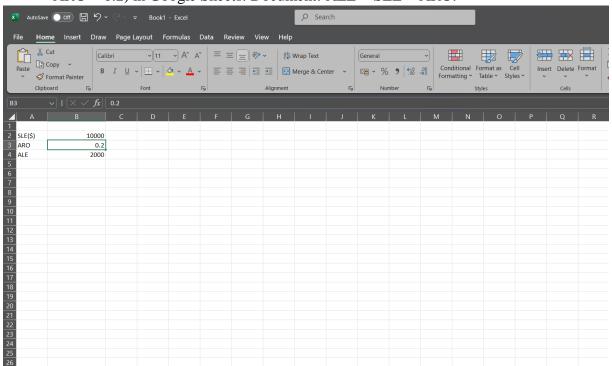


Annualized Loss Expectancy (ALE) = \$5000



Enhanced Tasks:

• **ALE Calculation:** Calculate ALE for a ransomware scenario (SLE = \$10,000, ARO = 0.2) in Google Sheets. Document: ALE = SLE × ARO.



ALE = \$2000

• **Risk Matrix:** Create a 5x5 risk matrix (Likelihood vs. Impact) and score the ransomware scenario.

	1 (Insignificant)	2 (Minor)	3 (Moderate)	4 (Major)	5 (Catastrophic)
5 (Almost Certain)	5	10	15	20	25
4 (Likely)	4	8	12	16	20
3 (Possible)	3	6	9	12	15
2 (Unlikely)	2	4	6	8	10
1 (Rare)	1	2	3	4	5