Practice Exercise: MS Excel Basics

The following is a post-class exercise for practicing Excel functionalities.

Note: This is neither a graded assessment nor has any time restraints for completion.

Case Study Number & Title	1. **Analyzing the Titanic data for drawing inferences on passenger survival**
Introduction	
Learning Outcomes	
Background Information	Titanic dataset contains the details of the passengers who boarded the ship on its maiden voyage, and ultimately whether they survived the accident or not.
Scenario	
Problem Statement/ Business Objectives	Analyze the survival data to discern the aftermath of the accident and explore using Excel to extract relevant insights.
Data, Information for Case Analysis	Data is provided as an xlsx file. Below is the source and attribute information. Source link: https://www.kaggle.com/datasets/brendan45774/test-file **Data Description** **PassengerId:** The unique ID assigned for each passenger aboard the ship **Survived:** Whether the passenger survived or not; 0=No, 1=Yes **Pclass:** Ticket class; 1=First class, 2=Second class, 3=Third class **Name:** Name of the passenger **Sex:** Gender of the passenger **Age:** Age at the time of boarding the vessel **SibSp:** Number of siblings or spouses accompanying the passenger **Parch:** Number of parents or children accompanying the passenger **Ticket:** Ticket number/ID **Fare:** Passenger fare for the journey **Cabin:** Cabin number assigned to the passenger **Embarked:** The port from where the passenger embarked the ship; C=Cherbourg, Q=Queenstown, S=Southampton
Questions	1. Highlight those passengers who were older than 45 years and survived the accident in green color. 2. Create an "AgeGroup" column with appropriate bin size. 3. Analyze the gender proportion in relation to survival status. 4. What is the ticket class and survival status of a passenger with ID 934? 5. Conduct analysis of relationship between the embarkation port and survival status using suitable means of visualization.
Solution	A sample solution also provided with the dataset
Deliverables for Solution and Rubric	Non-graded assessment
Key Takeaways/Results	Analyzing data using MS Excel and deriving meaningful insights which aids in decision making.