MILESTONE 2

This week's assignment includes five Excel files that serve as the data sources for the below questions. The focus of this week's assignment is on data-related topics such as data cleaning and analysis. You'll be diving into tasks like identifying and rectifying errors, handling duplicates, organizing, and formatting data for analysis, and drawing meaningful insights through data analysis techniques.

Data Cleaning

Clean the Audible dataset as explained in the data cleaning tutorial video including the star column.

Data Analysis

Pivot table.

1.Students at the School of Fine Art apply to study either English or Science. You have

been assigned to determine whether the School of Fine Art discriminates against

women

in admitting students to the school of their choice. You are given the following

data on the School of Fine Arts students:

❑ Female or male

❑ Major applied for: English (Eng) or Science (Sci)

❑ Admit? Yes or No

Assuming that women are as equally qualified for each major as men, does this data

indicate that the college discriminates against women? Be sure you use all available

information.

The data is in the file Finearts.xlsx.

2. You have been assigned to evaluate the quality of care given to heart attack patients

at Emergency Room (ER) and Chicago Hope (CH). For the last month you are given the

following patient data:

❑ Hospital (ER or CH).

❑ Risk category (high or low). High-risk people are less likely to survive than

low-

risk people.

❑ Patient outcome (live or die).

Use this data to determine which hospital is doing a better job of caring for heart

attack

patients. Hint: Use all the data. The data is in the file Hospital.xlsx.

3. You are given the monthly level of the Dow Jones Index for the years 1947 to1992.

Does this data indicate any unusual seasonal patterns in stock returns? Hint: You can

extract the month (January, February, and so on) by using the formula TEXT(A4,”mmm”)

copied to any column. The data is in the file Dow.xlsx.

4. The file Makeupdb.xlsx contains information about the sales of makeup products. For

each transaction, you are given the following information:

❑ Name of salesperson

❑ Date of sale

❑ Product sold

❑ Units sold

❑ Transaction revenue

Create a PivotTable to compile the following information:

❑ The number of sales transactions for each salesperson.

❑ For each salesperson, the total revenue by product.

❑ Using your answer to the previous question, create a function that always yields

Jen’s lipstick sales.

❑ Total revenue generated by each salesperson broken down by location.

❑ Total revenue by salesperson and year. (Hint: You need to group the data by year.)

Goal Seek

I am managing a conference at my college. My fixed costs are $15,000. I must pay the

10 speakers $700 each, and the college union $300 per conference participant for food

and lodging costs. I am charging each conference participant who is not also a speaker

$900, which includes the conference fee and their food and lodging costs. How many

paid registrants need to attend for me to break even?