**Hospital Patients Record Analysis – Documentation**

**Objective**

This project analyzes hospital patient records to identify key insights about:

* Patient demographics (age, gender)
* Department-wise patient distribution
* Cost per treatment and department
* Most common treatments and their impact

The goal is to provide a **clear dashboard** that helps hospital management in decision-making.

**Workbook Structure**

**Sheet 1: Problem**

* Contains the raw dataset (patient ID, department, treatment, cost, age, gender).
* Defines the **questions to solve**, e.g.:
  + Which department has the highest patient count?
  + What is the average treatment cost?
  + Which treatment is most common?
  + Gender and age distribution of patients.

**Sheet 2: Solution**

* Built using **Pivot Tables** and supporting calculations.
* Provides summary tables:
  + Department-wise patients & average cost
  + Treatment-wise frequency
  + Age group distribution
  + Cost trend analysis

**Sheet 3: Dashboard**

* Interactive visualization of the solutions.
* Includes:
  + Charts for patient demographics, department comparison, and treatment cost distribution

**Tools & Techniques**

* Microsoft Excel
* Pivot Tables & Pivot Charts
* Conditional Formatting
* Dashboard Design & Layout
* Data Cleaning (removing duplicates, handling blanks)

**Insights & Learnings**

* Most patients belong to the 66+ age group.
* A single-page dashboard provides a **bird’s-eye view** of hospital performance.

**Usage**

1. Open the workbook in Excel.
2. Navigate to **Dashboard** sheet for quick insights.
3. Refer to **Solution** sheet for detailed pivot tables.