## **Exercise**

Suppose that you work at a health center and you are charged of monitoring consultations over a period of 6 months in four (4) departments: **General Medicine / Pediatrics / Cardiology** /**Dermatology.** 

For each month, the following data is collected: Number of consultations / Average fee per consultation (in DZD) / Patient satisfaction rate (as a percentage)

## Task:

- 1- Compute the following using (SUM, SUMIF, SUMPRODUCT, AVERAGEIF, COUNTIF, IF)
  - Total consultations per month.
  - Count how many times satisfaction  $\ge 85\%$
  - Calculate overall revenue
  - For each row, display "Satisfactory" if satisfaction ≥ 85%, otherwise "Needs Improvement"
  - Total revenue from Cardiology
  - Average satisfaction for Pediatrics department

## 2- Create the following 4 charts:

- Line chart showing the evolution of monthly consultations for the department of General Medicine
- Vertical bar chart showing total revenue by specialty for the month of June
- **Pie chart** showing the distribution of total consultations by specialty for January
- **Double horizontal bar chart** comparing satisfaction rate (%) and average fee (DZD) for each specialty in march

Month	Specialty	Consultations	Average Fee (DZD)	Satisfaction (%)
January	General Medicine	120	250	85
January	Pediatrics	90	300	88
January	Cardiology	60	550	82
January	Dermatology	40	400	80
February	General Medicine	115	250	87
February	Pediatrics	95	300	89
February	Cardiology	65	550	84
February	Dermatology	45	400	81
March	General Medicine	130	250	86
March	Pediatrics	92	300	90
March	Cardiology	62	550	83
March	Dermatology	48	400	82
April	General Medicine	125	250	88
April	Pediatrics	88	300	87
April	Cardiology	70	550	85
April	Dermatology	50	420	84
May	General Medicine	118	250	86
May	Pediatrics	93	300	90
May	Cardiology	68	550	86
May	Dermatology	52	420	83
June	General Medicine	122	250	87
June	Pediatrics	94	300	91
June	Cardiology	66	550	84
June	Dermatology	50	420	83