# **Hospital Analytics**

## Analyze hospital patient encounters, costs, and behavior trends

# Objective 1

**Encounters overview**

Your first objective is to become familiar with the encounters table by slicing the data by years, encounter class and encounter length.

1. How many total encounters occurred each year?
2. For each year, what percentage of all encounters belonged to each encounter class (ambulatory, outpatient, wellness, urgent care, emergency, and inpatient)?
3. What percentage of encounters were over 24 hours versus under 24 hours?

# Objective 2

**Cost & coverage insights**

Your next objective is to analyze payer coverage, top procedures by frequency and cost, and average claim costs by payer.

1. How many encounters had zero payer coverage, and what percentage of total encounters does this represent?
2. What are the top 10 most frequent procedures performed and the average base cost for each?
3. What are the top 10 procedures with the highest average base cost and the number of times they were performed?
4. What is the average total claim cost for encounters, broken down by payer?

# Objective 3

**Patient behavior analysis**

Your final objective is to analyze patient behavior by tracking quarterly admissions and 30-day readmissions.

1. How many unique patients were admitted each quarter over time?
2. How many patients were readmitted within 30 days of a previous encounter?
3. Which patients had the most readmissions?