# **Project 5 — Data Explorer with Natural Commands**

## **Story**

A non‑technical customer brings a dataset and asks: “show seasonality by region,” “top 5 products this quarter.” They expect sensible views and quick refinements—**without learning a BI tool**.

## **Problem Statement**

Build a small data app that loads a table, supports common ops (filter/sort/group/aggregate/pivot), **auto‑suggests views**when requests are vague, and lets customers refine using **plain language**.

## **Key Requirements (only — from Customer)**

* **Talk, don’t tool:** Describe needs in everyday language and get useful views.
* **Give options when vague:** Offer **2–3 interpretations**, let me pick.
* **Tell me what you did:** Short, human‑readable explanation of the current view/op.
* **Feels smooth:** Works on **mid‑sized data** (thousands → tens of thousands of rows).
* **Let me take it with me:** Easy **export** of the current view.

## **Deliverable (single)**

**Streamlit app:** CSV uploader; table preview; NL command box; suggestions panel (confirm/apply); chart area; “operation explain” panel; export. JSON persistence is fine.

## **Hint**

Use a **configurable operation library** and keep explanations front‑and‑center so customers stay oriented while refining naturally.

**Note:** Sample datasets and submission forms will follow in subsequent email chains. A high‑level walkthrough will be provided in tomorrow’s kickoff call.