SQLite Basics

- Why SQLite for labs

- Tables & simple queries

- Writing via Python

Why SQLite

- Zero-config, file-based DB

- Easy to share and validate

- Good enough for reports

Python API

- `sqlite3.connect('inventory.db')`
- `cur.execute('CREATE TABLE IF NOT EXISTS ...')`
- `INSERT OR REPLACE` for upserts

Our Helper

- `common/lib/db.py` provides `upsert_devices`
- Used in `day2_cli_to_data/00_inventory_persist.py`

Queries

- Devices by OS

- Count interfaces by status (from getters)

Exercise

- Add a query that lists device names per platform
- Print results as CSV