# The Pepperoni Query: Slicing Through the Cheese

A pizza company owned 100 outlets across the country at the beginning of 2021.

**The company would like to know at any given point in time how many outlets are open**.

- An outlet is considered “closed” if it has had no transactions for 30 consecutive days.
- Outlets can re-open.

**Sample Data**
The sample data contains 2 years of data (approximately 55k records)

It contains the following columns:

- shop_id: unique identifier for each outlet
- date: date the transactions occurred
- n_trans: number of transactions

## 1. Setup

Using the python sqlite3 package(https://docs.python.org/3/library/sqlite3.html) please provide python code to:

- set up the database
- create a table to store the sample data (the DDL script can be in SQL)

## 2. Load

Provide python code to load the sample csv into the sqlite3 database table created above. Note: there is a possibility that some rows of the dataset may be incorrect and require cleaning.

## 3. Transform

Please provide a SQL script that can be used to create a view to show the open/closed status of outlets over time.

**Example**

Here is an example of the expected view’s output for a single outlet

| SHOP_ID | STATUS | LOWER_RANGE | UPPER_RANGE |
|---|---|---|---|
| 5 | open | 1/01/2021 | 23/09/2021 |
| 5 | clsd | 24/09/2021 | 16/12/2021 |
| 5 | open | 17/12/2021 | |

(when upper_range is null this indicates the status is current)