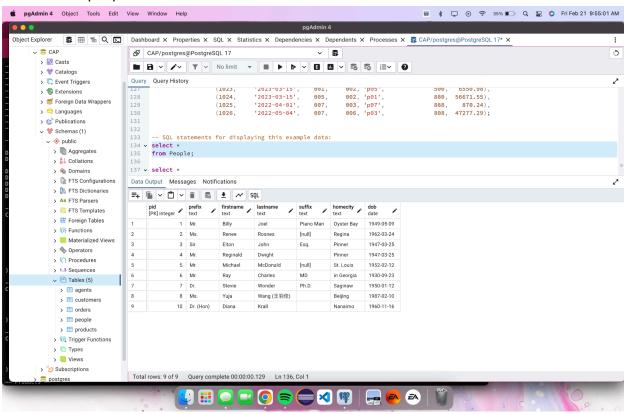
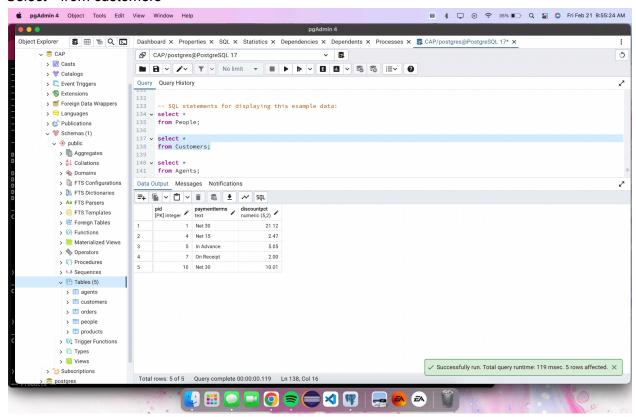
## Shea DeCaro

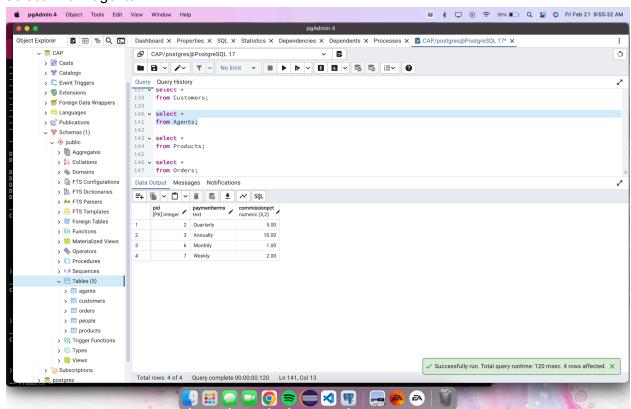
1. Select \* from people



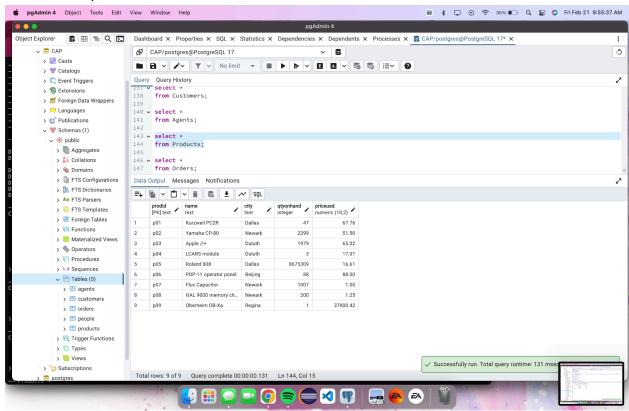
## 2. Select \* from customers



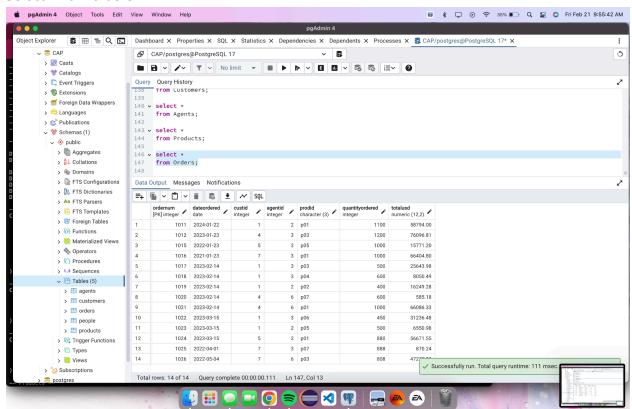
3. Select \* from agents



4. Select \* from products



5. Select \* from orders



- 6. Explain the distinctions among the terms primary key, candidate key, and superkey.
  - a. The Super key is any field or set of fields that uniquely identify every row in a table. A candidate key is a minimal super key, so it shares some fields like pid, an orderNum, or even a DOB, but it doesn't share every unique identifier. Lastly, a primary key is the "chosen candidate key", so it is more so one distinct column that identifies each table.
- 7. Write a short essay on data types. Select a topic for which you might create a table. Name the table and list its fields (columns). For each field, give its data type and whether or not it is nullable.
  - a. My topic is clothing inventory. The name of the table would be New Inventory. The fields would consist of pID (product ID), quantityOrdered, indCost (individual cost), and totalUSD.

pID	QuantityOrdered	indCost	totalUSD
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b.

- 8. Explain the following rational "rules" with examples and reasons why they are important.
  - a. The "first normal form" rule The first normal form rule is most basically described as not being allowed to have more than one value at any intersection of a row and column in a table. For example, if we had a table that described people, in which a column were called "skills" to describe a person, there cannot be more than one descriptor per row within the column. So, you cannot have "stealth, humor" in the same row/column intersection. You can only have either "stealth" or "humor" in the intersection.
  - b. The "access rows by content" rule The access rows by content rule is best summarized by saying we can ask for query data by asking for what is there and not based on where it is. For example, we can ask for corresponding data within the same row by asking for key identifiers such as "what is the name of pid 007". But, we cannot ask "what is the name of the first row" because that information is susceptible to change, but the name for pid 007 will stay constant.
  - c. The "all rows must be unique" rule The all rows must be unique rule is best described as making sure every row within a table is unique and not repeated. For example, we cannot repeat the information for pid 007 in another row and repeat the information again. This is because then it would make those two rows indistinguishable.