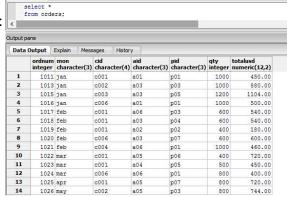
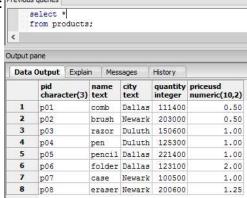
**Thomas Famularo** 9/14/2016

## Lab 2 - CAP database

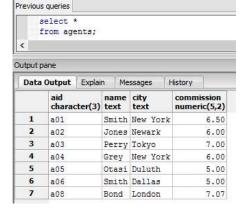
## 1. Orders:

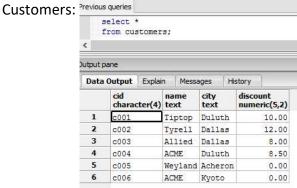


# Products: Previous queries



## Agents:





- 2. Explain the distinctions among the terms primary key, candidate key, and superkey.
  - A superkey is any combination of attributes that values together identify a specific entity. When combined they uniquely identify one entity.
  - A candidate key is an optimized superkey, if any attribute is removed from a candidate key it is no longer a superkey.
  - The primary key Is limited to finding data in only one table not the whole database like the other two keys.
- 3. A table that might be created is one that stores all of the poker hands possible and ranks them based on strength. The name of this table would be "Poker Hands", the names of each of the columns will be "card1value, card2value, card3value, card4value, card5value, card1suit, card2suit, card3suit, card4suit, card5suit, ranking". Card1-5value would have the data field of type char with the length of one. Card1-5suit would have the data field of type text. Ranking would have the data field of type Int. None of these data fields should have the value of null.
  - a. The first normal rule is that all fields are atomic, this means that every piece of data can be found with a table name a row number and column number, no other identifiers. This keeps data easily identifiable.
  - b. The "access rows by content only" rule is important because data may change, the data on row 3 on Friday may not be the same on Monday.
  - c. The "all rows must be unique" rule is important because it keep the duplication of data low and the accuracy of data high. This will result in more accurate information when using the database.