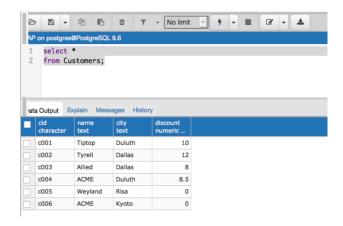
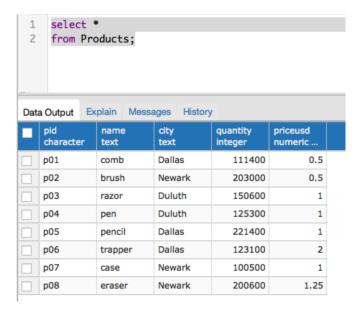
Christian Isolda January 31, 2017 Lab 2

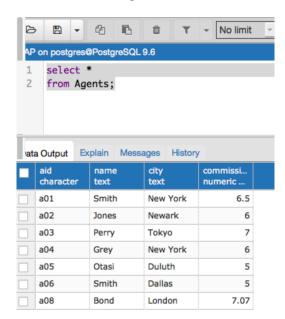
Customers



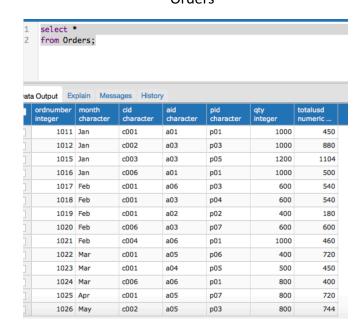
Products



Agents



Orders



- 2. A primary key is a column in the table that is used to identify a unique record in that table. It is used to sort and organize a table so each record can be found easily. Superkeys and candidate keys are similar to primary keys in which they help identify certain information by using uniqueness but superkeys can be 1 column or a column set containing multiple columns. Candidate keys are superkeys but a candidate key is the the superkey with the least requirements to be a superkey. For example, a superkey could be 4 columns or 2 columns. The candidate key would be the 2 column superkey because it is the minimal one.
- 3. Data types are the classes of input that a developer calls when making fields for input. For example, making a field an INT value means only integer values can be input there. Another example is making a field BOOLEAN, means only a true or false output can be determined by that field. If we were to make a table for Weather in popular cities there would be many different data types used. The table name would be Weather. Columns in the table would be: City Name, Zip Code, Temperature, Weather Condition. For City Name and Weather Condition it would be a CHAR because cities and weather conditions only contain letter values. For zip code it would be an INT data type because it can only be 5 numbers. Lastly, for temperature it would be a VARCHAR data type because it contains a number for temperature but also either F or C to declare which system it is being measure in.

4.

1NF: There is a table that holds data. This table needs to have a primary and each column must be unique. Also, the columns must contain atomic values and there are no reputation in the groups of colums.

Access Rows by Content Only: This is referring to you can't say "It's the 4th row down from the top" You can only reference rows by an ID to make sure the information being referenced is clear and concise.

All rows must be unique: Every row must be unique to make a table functional and logical. If there are 2 rows with everything the same it's a duplicate and can make things very complicated. There are cases where there is information in rows that are the same but usually the ID that reference that row are different making it unique.