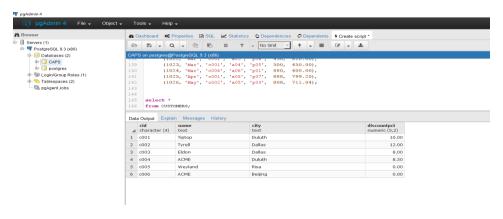
#### **Brandon Traditi**

## Database Management Lab 2

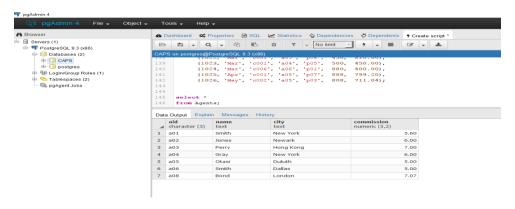
### 9/11/17

# 1.) Select \*from Customers;



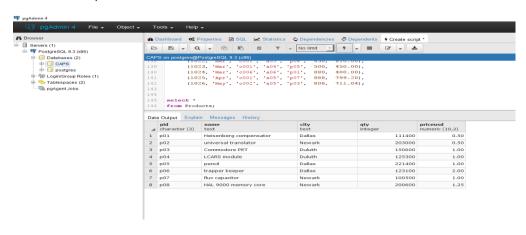
#### Select \*

# from Agents;



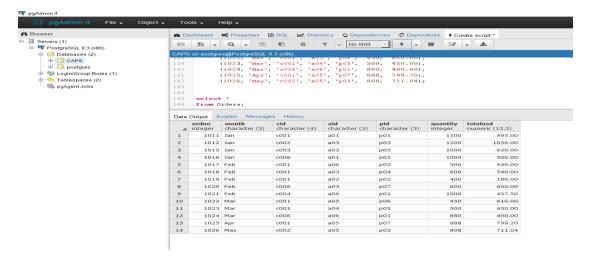
## Select \*

## from Products;



#### Select \*

### from Orders;



2.) Primary Key- is a field in a table which uniquely identifies each row in a database table. Primary keys contain unique values and cannot have NULL as a value. Each table can only have one primary key.

Candidate key-is a column, or set of columns, in a table that can uniquely identify any database record without referring to any other data. Each table could have one or more candidate keys but each candidate key is unique and can also classify as the primary key.

Superkey-is a set of attributes within a table whose values can be used to uniquely identify a tuple. A superkey is a set of columns that uniquely defines a row. A superkey can be any combination of data using the primary key within it.

3.) Data types in sql are the different types of ways data can be put into the table or field. There is a wide base of data types that can be used in SQL but common inputs could include integer if its pertaining to a price or id number, or Text if its pertaining to a month that a product was bought or the city which it is being bought from. For example in an orders table, the list of fields would be Order No., Date ordered, Customer, Product, Quantity, and Price. For each field, the data type would be as follows

Order No.-INT, not nullable

Date ordered- TEXT, not nullable

Customer-INT or TEXT(depending on if customers have id numbers), Nullable or Not nullable(depending on if customer has an account)

Product-INT or TEXT(depending on if products have id numbers), not nullable

Quantity-INT, not nullable

Price-INT, not nullable

4.) "First normal form" rule- The data is in a database table and the table stores information in rows and columns where one or more columns are the primary key that uniquely identifies each row. There is also no repeating groups of columns. This is important because the data is then organized into tables that are easily researchable and obtainable.

"Access rows by content order" rule- This rule objects to there being an order of rows. To say the third row from the bottom would not be classified as correct, this rule makes each row distinct by the content within that row and nothing else.

"All rows must be unique" rule- In this rule, two tuples cannot be identical in all column values at once. This stops the ability for there to be multiple identical rows in the tables which ties back into each row being its own unique entity.