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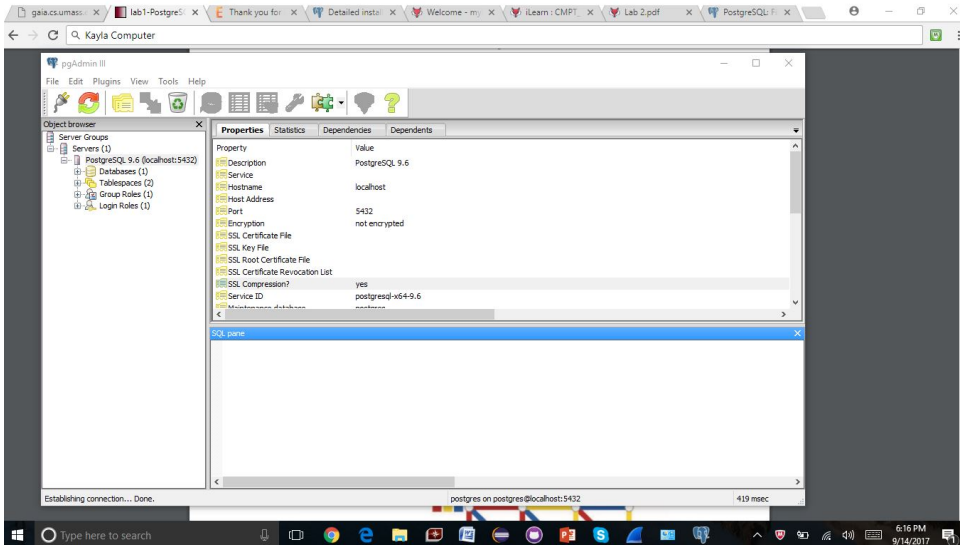
Lab 1

1. Download PostgreSQL



2. Data vs. Information

A database that is most commonly used to store data is an example o f an Apple iwatch app. Many users use this in everyday activity to track multiple data such as your exercise goal, heart rate, and tracking time. When using the exercise app on the watch it collects the amount of steps and calories burned in a day. The amount of steps and calories are considered data. Data is a value. The data is being stored into the watch. The context is then the average amount an individual walked in a day because of the data that is being collected together. Therefore, when data is given context it is thus interpreted as information. The information is an example of the chart that is created at the end of the

week on your iwatch app of the amount of calories burned and the amount an individual has walked. The information given allows the user to understand the data and context that is being given to them. Without information being interpreted a user would not be able to understand the data that is being collected and given context.

3. Data Models

Hierarchical data models and network pre-relational data models have many similarities and difference. They both assist organizing data that is being collected. The hierarchical data is based on a tree diagram. There is only one node in a hierarchical data. This model is considered less efficient than the networking diagram. In the hierarchical data there is one main parent source that is at the top of the tree and branches down. The root node is the parent. Thus, each parent is considered a field and can have multiple records. But a record can only have one field in the hierarchical data. The network pre-relational data model has multiple nodes. The model has multiple parent records that which are linked together that each have more records. The relationship in this model is consisted a many to many. XML as a model for data storage is not an efficient use of storing data. It depends on the structure of the data. It is harder to store larger amounts of data in XML. Also, the data will be represented more as a hierarchical model. This will enable the data to be organized properly.