

Marc Kirksey – Relation Data Store using PostgreSQL

## Omega Steel Piping Company Inventory Program

### Database Technology Explanation

This is a database that is designed for the purpose of moving away from a .pdf document that is shared yearly with customers of Omega Steel that displays their yearly pipe inventory to display a database of current available inventory in real-time for customers.

Not kidding, [here is a link](#) to the .pdf that they advertise on their website that they email out once-per-year.

With this being the case, I wanted to use this opportunity with my Capstone Project for a real-life application and not something I would forget about at the end of this class.

### Table/Structure Role for Application

Being that this is real inventory for a real company, [here is the link](#) to how the table will be designed. Below is the structured relationship for how a user will access the inventory once they've entered the inventory page.

The inventory that is displaying will be based on the *PipeSelection* that is available in the database. The site will have two main purposes.

- To log users into the site for making inquiry forms more easily/automatically filled out
- For users to see inventory on the Inventory page. The inventory will be pushed and updated from the Sql Database.

### Explanation for each table/structure

The *user* table is built to identify which customer is logging in to know what information needs to be automatically filled in when an inquiry regarding a certain type of pipe is selected on the Inventory page.

The *PipeSelection* table will be a chart that displays each of the characters the customer would want to know about the pipe that is in stock by Omega Steel on the Inventory page.

The *grade* table is used as a ladder from *PipeSelection* to *pipSpecs*. If a grade from *PipeSelection* is not in stock, then it will not display on the table or at least will state No Stock Available on the front-end of the application in the *PipeSelection* table.

The *pipSpecs* table is the hub for all of the pipe information that is referenced up to the *PipeSelection* table. The goal is to be able to use this table down the road as a reference tool for calculating logistics cost to getting a certain amount of industrial pipe from the Omega Steel Company warehouse yard, to the customer.

