Starting off the project by first understanding the needs of the business, which in this case is the restaurant. Being that there is some freedom to this project I picked a restaurant from the internet called Schipper’s. The first thing I did was start thinking about the level of granularity. The information what we need to know would have been relating to the customer and the restaurant itself. We would need a good amount of data to then be able to get derived data and information that could be used to answer and solve business problems. I looked at the instructions given, and the tables and relations were all there, so I just copied this into MySQL.

A screenshot of a computer program

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The next thing needed was to create a stored procedure that had to find the reservations and add special requests. Finding reservations retrieves the reservation for a customer. The add special request field updates the table with anything that the customer wants done. The add reservations creates a customer or adds one when they are making a reservation. in the customers table when adding a reservation. I used several functions such as update, begin, insert into, and many more depending on the functionality of the procedure. This is what it looks like.

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The next thing that had to be done was populate the database. I created 3 tuples for customers, reservations, and dining preferences. I added their name and email address for customers, since this is standard when making a reservation at most high-end restaurants. For the reservations table I added a time, and a special request such as a certain place to sit or an allergy so that it won’t be forgotten to the one managing or the host. Lastly dining preferences were created, this was made for custom orders or catering which is something that is done regularly. Here is the code.

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Now the Python is what we will be focusing on. The first thing that is being asked is to change the default parameters of the code so that I can run the server in Python. I will not be showing this being as the repo is public and people can view my password and information and potentially hack me. I did run the server and the application was successful, I was able to see it run locally. The next thing that needed to be done was to go back to the source code and add the methods to complete.   
  
A screen shot of a computer program

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Lastly the bonus was completed as well. Documentation was used as well as several other websites such as stack overflow, reddit, and Github were used in this. Here is the bonus functions created.

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Here is the final look of the site.

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