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5/13/2025

CIS 244

Prof. Ramos

### FreshDirect Grocery Delivery Service

For my mini-world project, I went with the grocery delivery service. I have a few friends in this business and gathered as much information as I could to strengthen my project. To run a grocery delivery service, a lot of information is required. In particular, we need specific customer information such as first and last name, phone number, and email address for billing purposes. Other information we would need are sales transactions, the type of payment, and the dates that correspond to those transaction dates. I figured that types of payment would be important because customers all over use different payment methods in their day-to-day. For example, Person A might use a card, while Person B could use cash upfront. Customer information is a very important addition to this service, as we would need to know who is buying what, when something was purchased, and how the order was paid for. Email addresses will help us to make sure our customers receive receipts to maintain for their own records as well as proof of sale. We can use customer phone numbers to maintain contact in case of any issues, updates/changes to orders, or general inquiries. Another important factor for our grocery delivery service is our product availability. Customers need to be able to see what we have to offer, what's in stock, and general product details. I believe with all these factors combined we can create a foundation for our grocery delivery service. I found the project both interesting and challenging. It was a good practice to apply our knowledge of all our lessons from the class and examples we've gone over as well. For example, making relationships within Access was an important factor in completing

my project. We had to make sure our primary keys were customized to our respective tables as well as create lots of sample data to convey our understanding of the task. I made a product list of about 40 items that this service has to offer. For my project I had the pleasure of interviewing my friend Richard who works at FreshDirect as the lead manager. He could not disclose customer information so I created custom ones dedicated to my database. This FreshDirect location happens to be in the Bronx specifically 2 St Anne's Ave. Richard mentioned that they have a constant inflow of information and that it can become very easy to get lost. He made it very clear that you have to be very attentive to detail as any database manager would be. This table contains product identifiers, product names, prices, and how much stock we currently have. Not only this but also a table consisting of customer information to keep track of sales, contact information, and order numbers. It was crucial for my database to have a table dedicated to keeping track of items ordered, which I named "OrderItem." This allowed me to keep track of the quantity of items ordered, product identifiers, order numbers attached to specific customers, and subtotal price prior to final sales. With projects come challenges, and I faced my fair share during the process. At first, I wasn't sure how I wanted to organize my database. I had to come up with many customized IDs for each table, items I wanted to offer, and label each category to specific products. All in all, it was a fun challenge that allowed me to test my knowledge of Access, SQL, and managing data.