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CSC 4480 - Principles of Database Systems
Final Project - Project Proposal

Ice Cream Shop Database

Project Summary

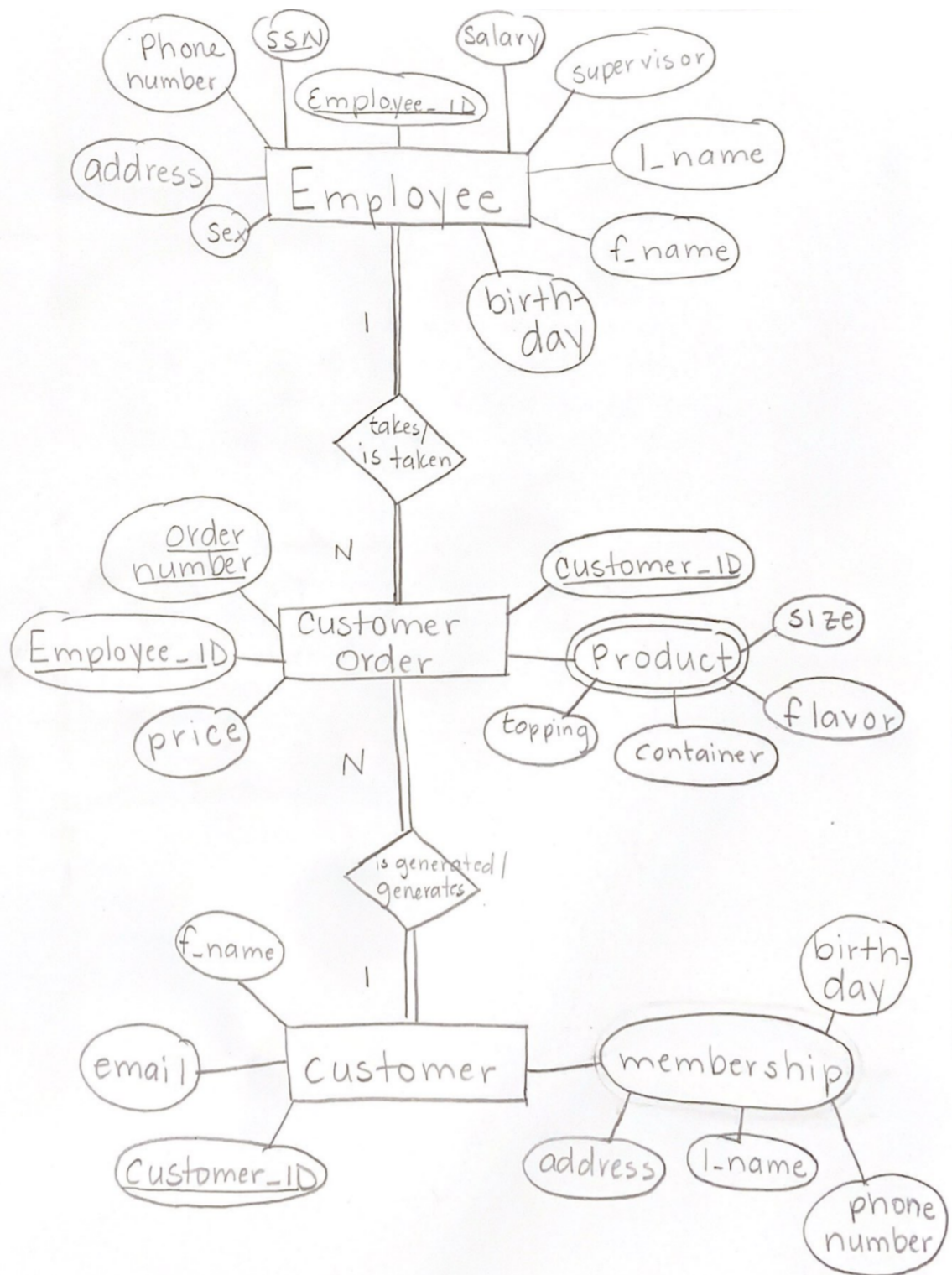
The goal of this project is to create a database that can be used by an ice cream shop to keep track of their orders, customers and employees. Keeping track of these things will help the business to run more smoothly and efficiently. This would include the following entities: CUSTOMER, EMPLOYEE, and CUST_ORDER. The CUSTOMER entity will record all customers that make a purchase in the ice cream shop where they will receive a unique customer ID that corresponds to their email address. The EMPLOYEE entity will contain all necessary employee information such as first name, last name, Social Security Number and their unique employee ID number. The CUST_ORDER entity will record all transactions between the customer and the employee and what is being sold with the total price. All of the entities correlate to one another as each entity helps to keep track of all business transactions that the ice cream shop will experience.

Business Rules and Restrictions

In order to run a business, there must be rules and restrictions that will be followed in order for the business to run smoothly. The tentative business rules and restrictions for the ice cream shop database are the following listed below:

<i>A customer can generate many orders.</i>	<i>(1:N)</i>
<i>Many orders can be generated by one customer.</i>	<i>(N:1)</i>
<i>An employee can take many orders.</i>	<i>(1:N)</i>
<i>Many orders can be taken by one employee.</i>	<i>(N:1)</i>

ER Diagram for the Conceptual Model



Schema Representation for the ER Diagram

