TITLE: CAKE SHOP ER DIAGRAM

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Introduction

This is the ER diagram and description of a single cake shop. This will describe the various entities and their relationship between each other. A single cake shop with

customers and employees. It has a single fixed menu, on special occasions; special items may be added temporarily. There are suppliers who provide ingredients for bakers to bake cakes. Drinks may also be sold.

Business Description

The store is a single cake shop that has a unique postal code and must have a name, an annual budget and their address stored. The store must have at least 1 or more employees working there. The store must possess only one menu with several cakes on it. The store may be shopped at by one or more customer.

Each employee has a unique bank account number, unique employee ID and must have a schedule, a name, a salary, and contact information. The employees may work as a manager, baker and cashier, and these are shown by sub-types. A baker may keep track of the recipe they know. A cashier may do overtime. The manager supervises the other employees. The bakers make the menu items, but this is not kept track of.

Each Customer may have loyalty card and has a unique loyalty card ID, they must have a name and may have contact information and a favorite cake. Each customer may shop at the one and only store.

The store has a menu that is the same year round, and must have a price and a list of allergies stored. This entity has sub-types Cakes and Drinks. Cakes may have the amount sold but must have the cost of boxes kept track of. The drinks must have a cups and flavoring kept track of. There must be a menu for one and only one store. The menu must have one or more menu items.

The menu items have a unique name and must have the amount stored. These items must be made from one or more ingredients. These menu items must be on one and only one menu. These items must be made by one or more bakers. There exists special items on some special occasions.

The store has ingredients which have unique barcodes, and must have the cost, amount and name of each stored. These ingredients must be used for making one or more menu items and may be used to make one or more special items. These ingredients must be supplied by one or more supplier.

The suppliers have a unique bank account stored and must have the name and contact information listed. The supplier may supply for one or more ingredients and may supply for one or more special items.

Special items exist for special occasions, these have unique names and must have the cost and occasion listed. These must be made from one or more ingredients. These must be supplied by one or more supplier. These must be added to the menu items during their occasion.

CAKE SHOP

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