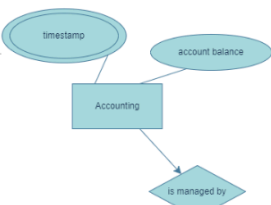


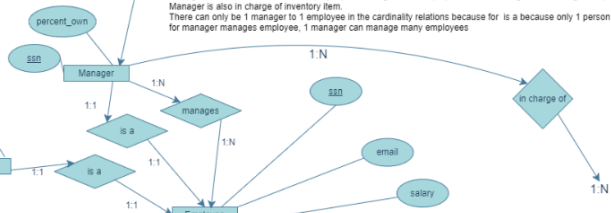
Explanation:

Accounting is an entity, and it contains timestamp which has two circles because this attribute is a multivalued. The multivalued are the date and the time. There is also the account balance attribute in this. Account is managed by the manager, so we put that as a relation.



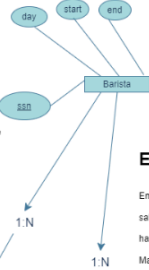
Explanation: Manager

Accounting is managed by manager, so we have the relation there. Manager's primary key is ssn, other attributes contain percent\_own. Manager has 2 relations towards employee, the manager is an employee and the manager also manages employee. Manager is also in charge of inventory item. There can only be 1 manager to 1 employee in the cardinality relations because for is a because only 1 person can be manager. for manager manages employee, 1 manager can manage many employees



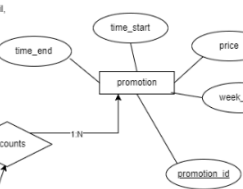
Explanation: Barista

Barista is an entity that has 3 relations with entity Employee and Entity Order and Entity line\_items. Barista contains primary key ssn, attributes day, start, end. Barista has 1:1 cardinality to employee because employee can only be 1 barista and vice versa. like multiple baristas can't be one employee, one employee can be one barista one a barista can sell many orders, they can also make many line items.



Explanation: Employee

Employee is an entity that contains attributes email, salary, name, and primary key ssn. An employee has two sub-entities that it inherits, Barista and Manager.



Explanation: Promotion

Promotion is an entity with attributes time\_end, time\_start, price, and week\_day. Primary key is promotion\_id. There is one menu that a promotion applies to, but one menu can have several promotions for its items.



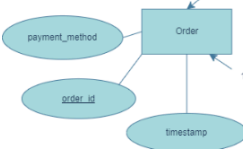
Explanation: Menu

Menu is an entity with attributes size, type, price, and temp\_drink. Primary key is recipe\_name.



Explanation: Order

Entity order has relations with barista, and line items. Order has primary key order\_id, and attributes payment\_method and timestamp



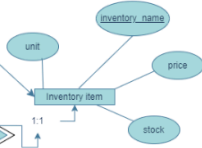
Explanation: Lineitems

Orders consist of solely of lineitems, so it can be considered a weak entity. Double lines around the shape and the key indicate this. One order can have many lineitems, but each line item must come from one order. LineItems has primary key drink, and attribute quantity



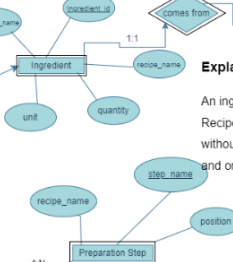
Explanation: Inventory item

Ingredients for items come from the inventory entity. It has primary key inventory\_name, and other attributes unit, price, and stock. One ingredient corresponds 1 to 1 with 1 inventory item.



Explanation: Ingredient

An ingredient is identified by a recipe name from Recipe, so it is a weak entity. An ingredient can't exist without Recipe. An ingredient is one inventory item, and one inventory item consists of one ingredient.



Explanation: Preparation Step, Recipe

One recipe is made up of several preparation steps, indicating a relation, but one preparation step doesn't belong to many recipes. A recipe is a weak entity because it exists only for a specific menu. Preparation Step is a weak entity because it needs to be identified by the recipe id in Recipe.

