

US Cost of Living

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Introduction:

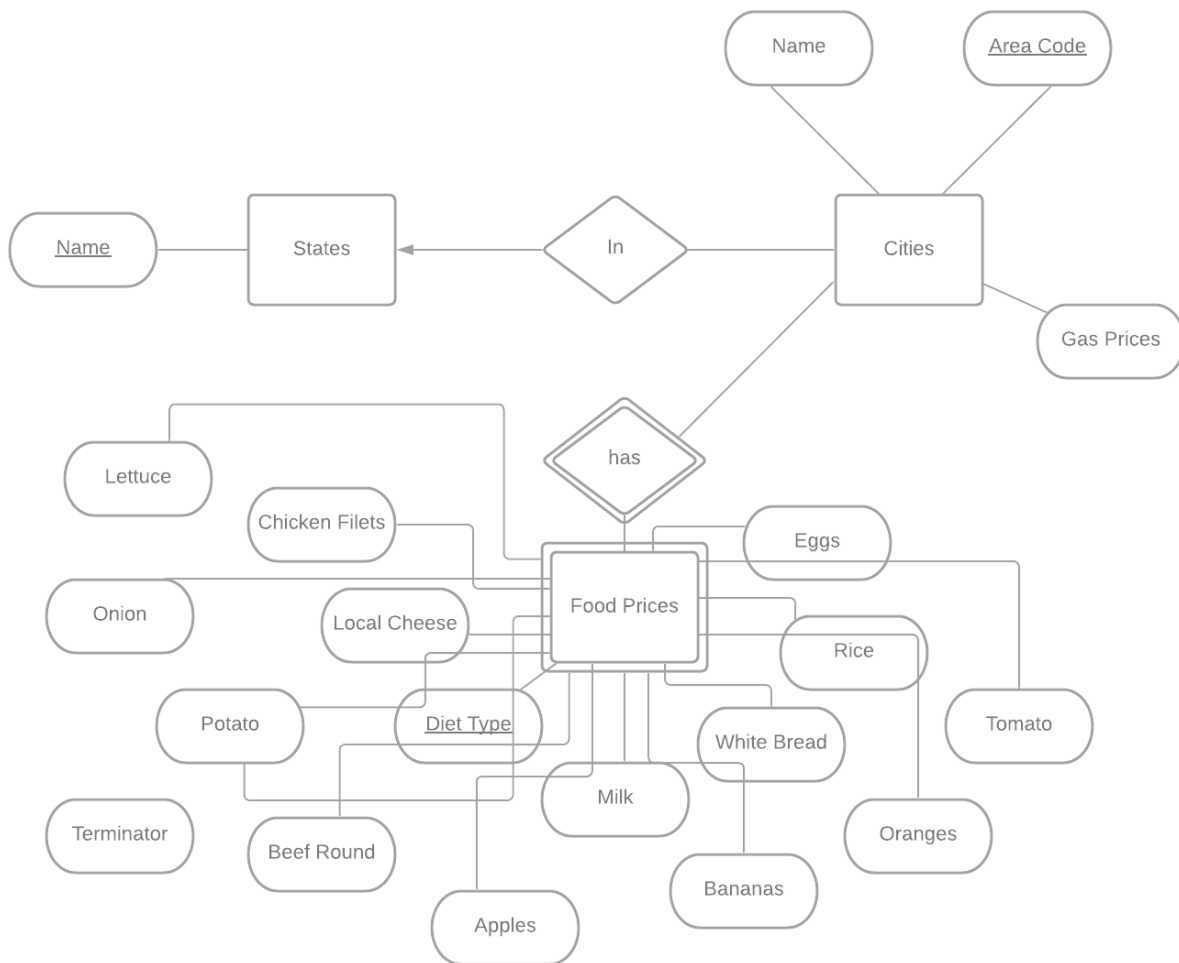
Our mini-world scenario is the “cost of living” in cities of the United States.

Requirements Analysis:

The data is from Numbeo. We will be using food prices, gas prices, cities, states, for now. If we need to augment the table, we can look for another data source and combine them. Operations on our data include searching and sorting.

Conceptual Design:

Here is an ER Diagram with constraints using Lucid



A good part of our design is its extendability. If we wish for more cost of living metrics, we can grab data from any exterior source and append it to the **Cities** Entity. We may also create more entities for categorization under food prices, if needed/discovered to be better later.

Logical Design:

States(Name, Cities)

Cities(Area Code, Name, Gas Prices, Food Prices)

Food Prices(Diet Prices, Milk, White Bread, Rice, Eggs, Local Cheese, Chicken Fillet, Beef Round, Apples, Banana, Oranges, Tomato, Potato, Onion, Lettuce)

Our design is already in BCNF.