

```
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```

Second, I will use the Foursquare API database, with the link below:

<https://developer.foursquare.com/doc>

I searched the food category in Foursquare API dataset. Venues retrieved from all the neighborhoods in New York City are categorized into ‘American Restaurant’, ‘Butcher’, ‘Chinese Restaurant’, ‘Deli/Bodega’, ‘Food Court’, ‘Food Truck’, ‘Frozen Yogurt Shop’, ‘Gourmet Shop’, ‘Grocery Store’, ‘Italian Restaurant’, ‘Museum’, ‘Organic Grocery’, ‘Other Repair Shop’, ‘Restaurant’, ‘Southern/Soul Food Restaurant’, and ‘Supermarket.’

I will use groupby function to only focus on Manhattan data, so the view of the data for Manhattan (the first 5 lines) would be:

|   | Neighborhood | Neighborhood Latitude | Neighborhood Longitude | Venue                       | Venue Latitude | Venue Longitude | Venue Category      |
|---|--------------|-----------------------|------------------------|-----------------------------|----------------|-----------------|---------------------|
| 0 | Marble Hill  | 40.876551             | -73.91066              | PeraBell Food Bar           | 40.765781      | -73.013731      | American Restaurant |
| 1 | Marble Hill  | 40.876551             | -73.91066              | Aldi Food Market            | 40.778311      | -73.033230      | Supermarket         |
| 2 | Marble Hill  | 40.876551             | -73.91066              | Delfiore Pizza & Food Co.   | 40.765692      | -73.013344      | Italian Restaurant  |
| 3 | Marble Hill  | 40.876551             | -73.91066              | Best Meal Chinese Food      | 40.765382      | -73.013084      | Chinese Restaurant  |
| 4 | Marble Hill  | 40.876551             | -73.91066              | Smith Haven Mall Food Court | 40.863369      | -73.129668      | Food Court          |