

In [55]:

```
#Step 1. Import the necessary libraries

import pandas as pd
import numpy as np
```

In [56]:

```
# Import the dataset from this address.
#Assign it to a variable called chipo.

chipo = pd.read_csv('https://raw.githubusercontent.com/justmarkham/DAT8/master/data/chipotle.tsv', sep = '\t')
```

In [62]:

```
#Applying dataset.

chipo
```

Out[62]:

	order_id	quantity	item_name	choice_description	item_price	
	0	1	1	Chips and Fresh Tomato Salsa	NaN	2.39
	1	1	1	Izze	[Clementine]	3.39
	2	1	1	Nantucket Nectar	[Apple]	3.39
	3	1	1	Chips and Tomatillo-Green Chili Salsa	NaN	2.39
	4	2	2	Chicken Bowl	[Tomatillo-Red Chili Salsa (Hot), [Black Beans...	16.98
	...	...	...	...	...	...
	4617	1833	1	Steak Burrito	[Fresh Tomato Salsa, [Rice, Black Beans, Sour ...	11.75
	4618	1833	1	Steak Burrito	[Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...	11.75
	4619	1834	1	Chicken Salad Bowl	[Fresh Tomato Salsa, [Fajita Vegetables, Pinto...	11.25
	4620	1834	1	Chicken Salad Bowl	[Fresh Tomato Salsa, [Fajita Vegetables, Lettu...	8.75
	4621	1834	1	Chicken Salad Bowl	[Fresh Tomato Salsa, [Fajita Vegetables, Pinto...	8.75

4622 rows × 5 columns

In [64]:

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#How many products cost more than $10.00?

np.count_nonzero(chipo.item_price>10.00)
```

Out[64]:

1130

In [65]:

```
#What is the price of each item?

chipo[(chipo['item_name']=='Chicken Bowl') & (chipo['quantity'] == 1)]
```

Out[65]:

	order_id	quantity	item_name	choice_description	item_price
	5	3	1 Chicken Bowl	[Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...	10.98
	13	7	1 Chicken Bowl	[Fresh Tomato Salsa, [Fajita Vegetables, Rice,...	11.25
	19	10	1 Chicken Bowl	[Tomatillo Red Chili Salsa, [Fajita Vegetables...	8.75
	26	13	1 Chicken Bowl	[Roasted Chili Corn Salsa (Medium), [Pinto Bea...	8.49
	42	20	1 Chicken Bowl	[Roasted Chili Corn Salsa, [Rice, Black Beans,...	11.25
	...	...	...	...	...
	4590	1825	1 Chicken Bowl	[Roasted Chili Corn Salsa, [Rice, Black Beans,...	11.25
	4591	1825	1 Chicken Bowl	[Tomatillo Red Chili Salsa, [Rice, Black Beans...	8.75
	4595	1826	1 Chicken Bowl	[Tomatillo Green Chili Salsa, [Rice, Black Bea...	8.75
	4599	1827	1 Chicken Bowl	[Roasted Chili Corn Salsa, [Cheese, Lettuce]]	8.75
	4604	1828	1 Chicken Bowl	[Fresh Tomato Salsa, [Rice, Black Beans, Chees...	8.75

693 rows × 5 columns

In [30]:

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#Step 6. Sort by the name of the item

chipo.sort_values(by = 'item_name')
```

Out[30]:

	order_id	quantity	item_name	choice_description	item_price	
	3389	1360	2	6 Pack Soft Drink	[Diet Coke]	\$12.98
	341	148	1	6 Pack Soft Drink	[Diet Coke]	\$6.49
	1849	749	1	6 Pack Soft Drink	[Coke]	\$6.49
	1860	754	1	6 Pack Soft Drink	[Diet Coke]	\$6.49
	2713	1076	1	6 Pack Soft Drink	[Coke]	\$6.49
	...	...	...	...	...	...
	2384	948	1	Veggie Soft Tacos	[Roasted Chili Corn Salsa, [Fajita Vegetables,...	\$8.75
	781	322	1	Veggie Soft Tacos	[Fresh Tomato Salsa, [Black Beans, Cheese, Sou...	\$8.75
	2851	1132	1	Veggie Soft Tacos	[Roasted Chili Corn Salsa (Medium), [Black Bea...	\$8.49
	1699	688	1	Veggie Soft Tacos	[Fresh Tomato Salsa, [Fajita Vegetables, Rice,...	\$11.25
	1395	567	1	Veggie Soft Tacos	[Fresh Tomato Salsa (Mild), [Pinto Beans, Rice...	\$8.49

4622 rows × 5 columns

In [66]:

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#Step 7. What was the quantity of the most expensive item ordered?

chipo.sort_values(by = 'quantity', ascending = False).head(1)
```

Out[66]:

	order_id	quantity	item_name	choice_description	item_price
3598	1443	15	Chips and Fresh Tomato Salsa	NaN	44.25

In [32]:

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#Step 8. How many times was a Veggie Salad Bowl ordered?

chipo_salad = chipo[chipo.item_name == 'Veggie Salad Bowl']
len(chipo_salad)
```

Out[32]:

18

In [67]:

```
#Step 9. How many times did someone order more than one Canned Soda?

chipo = chipo[(chipo.item_name == 'Canned Soda') & (chipo.quantity > 1)]
len(chipo)
```

Out[67]:

20

In [ ]: