

```

solution.top_x(10)
count = solution.count()
print(count)
assert count == 4622
solution.info()
count = solution.num_column()
assert count == 5
item_name, order_id, quantity = solution.most_ordered_item()
assert item_name == 'Chicken Bowl'
assert order_id == 713926
assert quantity == 761
total = solution.total_item_orders()
assert total == 4972
assert 39237.02 == solution.total_sales()
assert 1834 == solution.num_orders()
assert 21.39 == solution.average_sales_amount_per_order()
assert 50 == solution.num_different_items_sold()
solution.plot_histogram_top_x_popular_items(5)
solution.scatter_plot_num_items_per_order_price()

if __name__ == "__main__":
    # execute only if run as a script
    test()

```

```

/var/folders/rw/88v4kq0j17ddptgzx3f5wj80000gn/T/ipykernel_87508/2824857306.py:1
18: FutureWarning: In a future version of pandas all arguments of read_csv excep
t for the argument 'filepath_or_buffer' will be keyword-only

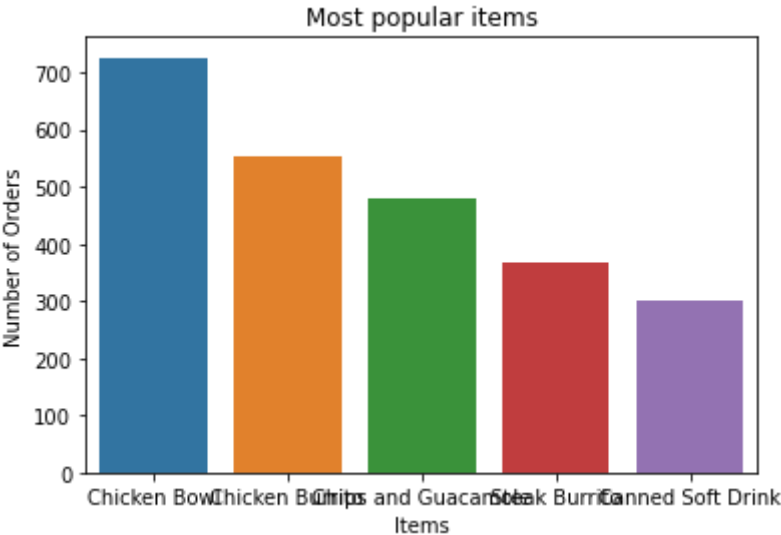
```

```

solution = Solution()
|  |  |  order_id |  quantity |  item_name |  choice_
description
|  item_price |
|---:|-----:|-----:|:-----:|:-----
-----:|-----:|-----:|:-----:|
|  0 | 1 | 1 | Chips and Fresh Tomato Salsa | nan
| $2.39 |
|  1 | 1 | 1 | Izze | [Clemen
tine]
| $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 | [Tomati
llo-Red Chili Salsa (Hot), [Black Beans, Rice, Cheese, Sour Cream]]
| $16.98 |
|  5 | 3 | 1 | Chicken Bowl | [Fresh
Tomato Salsa (Mild), [Rice, Cheese, Sour Cream, Guacamole, Lettuce]]
| $10.98 |
|  6 | 3 | 1 | Side of Chips | nan
| $1.69 |
|  7 | 4 | 1 | Steak Burrito | [Tomati
llo Red Chili Salsa, [Fajita Vegetables, Black Beans, Pinto Beans, Cheese, Sour
Cream, Guacamole, Lettuce]] | $11.75 |
|  8 | 4 | 1 | Steak Soft Tacos | [Tomati
llo Green Chili Salsa, [Pinto Beans, Cheese, Sour Cream, Lettuce]]
| $9.25 |
|  9 | 5 | 1 | Steak Burrito | [Fresh

```

```
Tomato Salsa, [Rice, Black Beans, Pinto Beans, Cheese, Sour Cream, Lettuce]]
| $9.25 |
4622
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4622 entries, 0 to 4621
Data columns (total 5 columns):
#   Column                Non-Null Count  Dtype
---  -
0   order_id              4622 non-null   int64
1   quantity              4622 non-null   int64
2   item_name             4622 non-null   object
3   choice_description    3376 non-null   object
4   item_price            4622 non-null   object
dtypes: int64(2), object(3)
memory usage: 180.7+ KB
None
```



```
In [ ]:
```