week3-project2-1

January 2, 2024

```
[50]: import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
      import seaborn as sns
 [2]: df = pd.read_csv("C:\\Users\\Dipen\\Downloads\\chipotle.csv")
 [3]: df
            order_id quantity
 [3]:
                                                                item_name
      0
                                           Chips and Fresh Tomato Salsa
                    1
      1
                    1
                               1
                                                                     Izze
      2
                    1
                               1
                                                        Nantucket Nectar
      3
                    1
                               1
                                  Chips and Tomatillo-Green Chili Salsa
      4
                    2
                               2
                                                            Chicken Bowl
                                                           Steak Burrito
      4617
                 1833
                               1
      4618
                 1833
                               1
                                                           Steak Burrito
      4619
                 1834
                                                      Chicken Salad Bowl
      4620
                 1834
                               1
                                                      Chicken Salad Bowl
      4621
                 1834
                                                      Chicken Salad Bowl
                                             choice_description item_price
      0
                                                             NaN
                                                                      $2.39
                                                    [Clementine]
      1
                                                                      $3.39
      2
                                                         [Apple]
                                                                      $3.39
      3
                                                             NaN
                                                                      $2.39
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                                                                   $16.98
      4617
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
                                                                   $11.75
      4618
            [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                   $11.75
      4619
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                   $11.25
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
      4620
                                                                    $8.75
      4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                    $8.75
      [4622 rows x 5 columns]
```

[4]: df.head(20)#gives first 20 values [4]:order_id quantity item name 0 Chips and Fresh Tomato Salsa 1 1 1 Izze 2 1 1 Nantucket Nectar 3 1 1 Chips and Tomatillo-Green Chili Salsa 4 2 2 Chicken Bowl 3 5 1 Chicken Bowl 6 3 1 Side of Chips 7 Steak Burrito 4 1 8 4 1 Steak Soft Tacos 9 5 Steak Burrito 1 10 5 1 Chips and Guacamole 11 6 1 Chicken Crispy Tacos 6 Chicken Soft Tacos 12 1 13 7 1 Chicken Bowl 14 7 1 Chips and Guacamole 15 8 1 Chips and Tomatillo-Green Chili Salsa 8 16 1 Chicken Burrito 17 9 1 Chicken Burrito 18 9 2 Canned Soda 19 10 1 Chicken Bowl choice_description item_price 0 NaN \$2.39 \$3.39 1 [Clementine] 2 [Apple] \$3.39 3 \$2.39 4 [Tomatillo-Red Chili Salsa (Hot), [Black Beans... \$16.98 \$10.98 5 [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou... 6 NaN\$1.69 7 [Tomatillo Red Chili Salsa, [Fajita Vegetables... \$11.75 [Tomatillo Green Chili Salsa, [Pinto Beans, Ch... 8 \$9.25 9 [Fresh Tomato Salsa, [Rice, Black Beans, Pinto... \$9.25 10 NaN\$4.45 11 [Roasted Chili Corn Salsa, [Fajita Vegetables,... \$8.75 [Roasted Chili Corn Salsa, [Rice, Black Beans,... 12 \$8.75 13 [Fresh Tomato Salsa, [Fajita Vegetables, Rice,... \$11.25 14 NaN \$4.45 15 \$2.39 NaN 16 [Tomatillo-Green Chili Salsa (Medium), [Pinto ... \$8.49 17 [Fresh Tomato Salsa (Mild), [Black Beans, Rice... \$8.49 [Sprite] 18 \$2.18 19 [Tomatillo Red Chili Salsa, [Fajita Vegetables... \$8.75

[5]: df.tail(20)#gives last 20 values

```
[5]:
           order_id quantity
                                            item_name
     4602
                1827
                              1
                                    Barbacoa Burrito
     4603
                1827
                              1
                                    Barbacoa Burrito
     4604
                1828
                              1
                                         Chicken Bowl
     4605
                1828
                              1
                                 Chips and Guacamole
     4606
                              1
                                   Canned Soft Drink
                1828
     4607
                1829
                              1
                                        Steak Burrito
     4608
                1829
                              1
                                       Veggie Burrito
     4609
                1829
                              1
                                   Canned Soft Drink
     4610
                1830
                              1
                                        Steak Burrito
     4611
                1830
                              1
                                       Veggie Burrito
     4612
                1831
                              1
                                        Carnitas Bowl
     4613
                1831
                              1
                                                Chips
     4614
                              1
                1831
                                        Bottled Water
     4615
                1832
                              1
                                  Chicken Soft Tacos
     4616
                1832
                              1
                                 Chips and Guacamole
     4617
                1833
                              1
                                        Steak Burrito
     4618
                                        Steak Burrito
                1833
                              1
     4619
                              1
                                  Chicken Salad Bowl
                1834
     4620
                1834
                              1
                                  Chicken Salad Bowl
     4621
                1834
                                  Chicken Salad Bowl
                                             choice_description item_price
     4602
                                 [Tomatillo Green Chili Salsa]
                                                                      $9.25
     4603
                                 [Tomatillo Green Chili Salsa]
                                                                      $9.25
     4604
            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
                                                                    $8.75
     4605
                                                                      $4.45
                                                             NaN
     4606
                                                          [Coke]
                                                                      $1.25
     4607
            [Tomatillo Green Chili Salsa, [Rice, Cheese, S...
                                                                   $11.75
     4608
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                   $11.25
     4609
                                                        [Sprite]
                                                                      $1.25
     4610
            [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                   $11.75
     4611
            [Tomatillo Green Chili Salsa, [Rice, Fajita Ve...
                                                                   $11.25
     4612
            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                                                                    $9.25
     4613
                                                                      $2.15
                                                             NaN
     4614
                                                              NaN
                                                                      $1.50
     4615
             [Fresh Tomato Salsa, [Rice, Cheese, Sour Cream]]
                                                                      $8.75
     4616
                                                                      $4.45
     4617
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
                                                                   $11.75
     4618
            [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                   $11.75
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
     4619
                                                                   $11.25
     4620
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
                                                                    $8.75
     4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                    $8.75
```

[6]: df.shape #is a tuple of array dimensions that tells the number of rows and columns of a given DataFrame.

```
[6]: (4622, 5)
 [7]: df.columns #qives the columns name from the given dataset
 [7]: Index(['order_id', 'quantity', 'item_name', 'choice_description',
             'item_price'],
            dtype='object')
 [8]: df.isnull().sum() # returns the number of missing values from the given dataset.
 [8]: order_id
                                0
      quantity
                                0
      item_name
                                0
      choice_description
                             1246
      item_price
                                0
      dtype: int64
 [9]: #Finding missing value
      missing_values = df.isnull()
[10]: print(missing_values)
           order_id quantity item_name choice_description item_price
     0
              False
                         False
                                    False
                                                          True
                                                                     False
     1
              False
                         False
                                                         False
                                                                     False
                                    False
     2
              False
                         False
                                    False
                                                         False
                                                                     False
     3
              False
                        False
                                    False
                                                          True
                                                                     False
     4
              False
                         False
                                    False
                                                         False
                                                                     False
                                                                     False
     4617
              False
                         False
                                    False
                                                         False
                                                                     False
     4618
              False
                         False
                                    False
                                                         False
     4619
              False
                         False
                                    False
                                                         False
                                                                     False
     4620
              False
                         False
                                    False
                                                         False
                                                                     False
     4621
              False
                         False
                                    False
                                                         False
                                                                     False
     [4622 rows x 5 columns]
[11]: #Tackeling missing values
      df_cleaned = df.dropna(inplace=True)
      print(df_cleaned)
     None
[12]: print(df)
           order_id quantity
                                         item_name \
                   1
                                               Izze
     1
                             1
```

Nantucket Nectar

2

1

```
5
                   3
                                       Chicken Bowl
                              1
     7
                   4
                              1
                                      Steak Burrito
                                      Steak Burrito
     4617
                1833
                              1
     4618
                1833
                              1
                                      Steak Burrito
     4619
                1834
                              1
                                Chicken Salad Bowl
                                Chicken Salad Bowl
     4620
                1834
     4621
                1834
                                Chicken Salad Bowl
                                            choice_description item_price
                                                   [Clementine]
                                                                     $3.39
     1
     2
                                                                     $3.39
                                                        [Apple]
     4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                                                                 $16.98
     5
            [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                                                                 $10.98
     7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                 $11.75
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
     4617
                                                                 $11.75
     4618
           [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                 $11.75
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
     4619
                                                                 $11.25
     4620
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
                                                                  $8.75
     4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                  $8.75
     [3376 rows x 5 columns]
[13]: # Remove non-numeric characters and convert to numeric
      df['item_price'] = pd.to_numeric(df['item_price'].str.replace('[^\d.]', ''),__
        ⇔errors='coerce')
     C:\Users\Dipen\AppData\Local\Temp\ipykernel_22628\2375342477.py:2:
     FutureWarning: The default value of regex will change from True to False in a
     future version.
       df['item_price'] = pd.to_numeric(df['item_price'].str.replace('[^\d.]', ''),
     errors='coerce')
[14]: df
[14]:
            order_id
                      quantity
                                           item_name \
                                                Izze
      1
                   1
                              1
      2
                    1
                              1
                                   Nantucket Nectar
      4
                   2
                              2
                                        Chicken Bowl
      5
                    3
                                        Chicken Bowl
                              1
      7
                    4
                              1
                                       Steak Burrito
                                       Steak Burrito
      4617
                 1833
                              1
      4618
                              1
                                       Steak Burrito
                 1833
                              1 Chicken Salad Bowl
      4619
                 1834
```

Chicken Bowl

4

```
4620
                1834
                              1 Chicken Salad Bowl
      4621
                1834
                              1 Chicken Salad Bowl
                                             choice_description item_price
      1
                                                    [Clementine]
                                                                        3.39
      2
                                                                        3.39
                                                         [Apple]
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                                                                     16.98
      5
            [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                                                                     10.98
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
      7
                                                                     11.75
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
      4617
                                                                     11.75
      4618
            [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                     11.75
      4619
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                     11.25
      4620
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
                                                                      8.75
      4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                      8.75
      [3376 rows x 5 columns]
[15]: # Display the data types of each column
      print(df.dtypes)
     order id
                               int64
     quantity
                               int64
                             object
     item_name
     choice_description
                             object
     item_price
                            float64
     dtype: object
[16]: #identify the duplicates entries in each column
[17]: duplicates=df[df.duplicated()]
[18]: print(duplicates)
            order_id
                      quantity
                                           item name
     238
                 103
                             1
                                       Steak Burrito
     248
                 108
                             1
                                         Canned Soda
                 129
                                       Steak Burrito
     297
                             1
     381
                 165
                             1
                                   Canned Soft Drink
                 205
                             1
                                        Chicken Bowl
     484
                                   Canned Soft Drink
     567
                 233
                             1
                                   Canned Soft Drink
     684
                 282
                             1
     773
                 319
                             1
                                        Chicken Bowl
                                       Steak Burrito
     908
                 376
                             1
     924
                 381
                                  Chicken Soft Tacos
     1117
                 462
                             1
                                     Chicken Burrito
```

Chicken Burrito

1203

491

1381	561	1	Canned Soft Drink				
1420	576	1	Barbacoa Bowl				
1421	576	1	Barbacoa Salad Bowl				
1502	610	1	Chicken Burrito				
1612	651	1	Izze				
1791	724	1	Canned Soft Drink				
1792	724	1	Canned Soft Drink				
2078	838	1	Chicken Soft Tacos				
2127	856	1	Chicken Burrito				
2307	926	1	Chicken Bowl				
2318	926	1	Chicken Bowl				
2362	940	1	Canned Soft Drink				
2448	972	1	Chicken Bowl				
2553	1011	1	Canned Soft Drink				
2554	1011	1	Canned Soft Drink				
2662	1057	1	Chicken Soft Tacos				
2717	1078	1	Chicken Bowl				
2833	1125	1	Chicken Burrito				
2973	1182	1	Chicken Bowl				
2977	1184	1	Steak Bowl				
3637	1454	1	Chicken Soft Tacos				
3716	1484	1	Canned Soda				
3764	1507	1	Chicken Burrito				
3829	1534	1	Chicken Burrito				
4112	1647	1	Chicken Bowl				
4236	1691	1	Chicken Bowl				
4463	1778	1	Canned Soft Drink				
4603	1827	1	Barbacoa Burrito				
			choice_description	item_price			
238	[Tomatillo R	ed Chili	Salsa, [Rice, Black Beans	11.75			
248			[Mountain Dew]	1.09			
297	[Tomatillo G	reen Chi	li Salsa, [Rice, Cheese, G	11.75			
381			[Coke]	1.25			
484	[Fresh Tomat	o Salsa,	[Fajita Vegetables, Rice,	8.75			
567			[Diet Coke]	1.25			
684			[Coke]	1.25			
773	[Tomatillo-G	reen Chi	li Salsa (Medium), Black B	8.49			
908	[Roasted Chili Corn Salsa (Medium), [Rice, Faj 8.99						
924			ded Chili Salsa (Hot), Cheese]	8.49			
1117		-	[Rice, Black Beans, Chees	11.25			
1203	[Fresh Tomat	o Salsa,	[Cheese, Sour Cream, Lett	8.75			
1245			[Lemonade]	1.25			
1381			[Coke]	1.25			
1420			[Roasted Chili Corn Salsa]	9.25			
1421	r -	- -	[Roasted Chili Corn Salsa]	9.39			
		~ -	1 T				

1 Canned Soft Drink

507

1245

8.75

1502 [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...

```
1792
                                                         [Coke]
                                                                        1.25
     2078
            [Fresh Tomato Salsa, [Cheese, Sour Cream, Lett...
                                                                      8.75
            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
     2127
                                                                     11.25
     2307
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
                                                                      8.75
     2318
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
                                                                      8.75
     2362
                                                         [Coke]
                                                                        1.25
     2448
            [Tomatillo Red Chili Salsa, [Rice, Black Beans...
                                                                      8.75
     2553
                                                                        1.25
     2554
                                                         [Coke]
                                                                        1.25
     2662
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                     11.25
            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
     2717
                                                                     11.25
     2833
                [Fresh Tomato Salsa, [Rice, Cheese, Lettuce]]
                                                                        8.75
     2973
            [Tomatillo-Red Chili Salsa (Hot), [Rice, Black...
                                                                      8.49
     2977
            [Fresh Tomato Salsa, [Rice, Pinto Beans, Chees...
                                                                      9.25
     3637
                                    [Fresh Tomato Salsa, Rice]
                                                                        8.75
     3716
                                                   [Dr. Pepper]
                                                                        1.09
     3764
            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
                                                                      8.75
            [Fresh Tomato Salsa, [Rice, Cheese, Sour Cream...
     3829
                                                                      8.75
     4112
            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                                                                     11.25
     4236
                                                   [White Rice]
                                                                        8.50
     4463
                                                     [Lemonade]
                                                                        1.25
     4603
                                 [Tomatillo Green Chili Salsa]
                                                                        9.25
[19]: # Display the count of entries for each category, including duplicates
      category_counts1 = df['order_id'].value_counts()
      print(category_counts1)
     926
              23
     1483
              14
     691
              11
     205
              11
     1786
              10
     1205
               1
     1207
               1
     433
               1
     1210
               1
     917
               1
     Name: order_id, Length: 1833, dtype: int64
[20]: # Calculate the total number of duplicate values of order_id column
      total_duplicate_values1 = len(category_counts1)
      print(total_duplicate_values1)
```

[Blackberry]

[Coke]

3.39

1.25

1612

1791

```
[21]: # Calculating the mean without handling duplicates of order id column
      mean_without_duplicates = df['order_id'].mean()
      print({mean_without_duplicates})
     {920.3320497630332}
[22]: # Calculating the mean after dropping duplicates
      mean_with_duplicates handled = df['order_id'].drop_duplicates().mean()
      print({mean_with_duplicates_handled})
     {917.4249863611566}
[23]: # Dropping duplicates from 'item_name' column permanently
      df['order_id'] = df['order_id'].drop_duplicates()
[24]: df
[24]:
            order id quantity
                                          item name
                 1.0
                                               Izze
      1
                              1
      2
                 NaN
                              1
                                   Nantucket Nectar
      4
                 2.0
                              2
                                       Chicken Bowl
      5
                 3.0
                              1
                                       Chicken Bowl
      7
                 4.0
                                      Steak Burrito
                              1
      4617
              1833.0
                              1
                                      Steak Burrito
      4618
                 NaN
                                      Steak Burrito
                              1
      4619
              1834.0
                              1 Chicken Salad Bowl
      4620
                 NaN
                              1 Chicken Salad Bowl
      4621
                              1 Chicken Salad Bowl
                 NaN
                                            choice_description item_price
      1
                                                   [Clementine]
                                                                       3.39
      2
                                                                       3.39
                                                        [Apple]
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      4
                                                                    16.98
      5
            [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                                                                    10.98
      7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                    11.75
      4617
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
                                                                    11.75
      4618 [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
                                                                    11.75
      4619
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                    11.25
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
      4620
                                                                     8.75
      4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                     8.75
      [3376 rows x 5 columns]
```

[]:

```
[25]: # Display the count of entries for each category, including duplicates
    category_counts2 = df['item_name'].value_counts()
    print(category_counts2)
```

```
Chicken Bowl
                          726
Chicken Burrito
                          553
Steak Burrito
                          368
Canned Soft Drink
                          301
Steak Bowl
                          211
Chicken Soft Tacos
                          115
Chicken Salad Bowl
                          110
Canned Soda
                          104
Veggie Burrito
                           95
Barbacoa Burrito
                           91
Veggie Bowl
                           85
Carnitas Bowl
                           68
Barbacoa Bowl
                           66
Carnitas Burrito
                           59
Steak Soft Tacos
                           55
6 Pack Soft Drink
                           54
Chicken Crispy Tacos
                           47
Carnitas Soft Tacos
                           40
Steak Crispy Tacos
                           35
Steak Salad Bowl
                           29
Nantucket Nectar
                           27
Barbacoa Soft Tacos
                           25
Izze
                           20
Veggie Salad Bowl
                           18
Barbacoa Crispy Tacos
                           11
Barbacoa Salad Bowl
                           10
Chicken Salad
                            9
                            7
Carnitas Crispy Tacos
Veggie Soft Tacos
                            7
Burrito
                            6
Carnitas Salad Bowl
                            6
Veggie Salad
                            6
Steak Salad
                            4
Bowl
                            2
                            2
Crispy Tacos
                            2
Salad
Veggie Crispy Tacos
                            1
Carnitas Salad
Name: item_name, dtype: int64
```

[26]: # Calculate the total number of duplicate values of order_id column
total_duplicate_values2 = len(category_counts2)
print(total_duplicate_values2)

```
38
```

```
[27]: # Counting unique items without handling duplicates
      unique_items = df['item_name'].nunique()
      print({unique_items})
     {38}
[28]: # Counting unique items after dropping duplicates
      unique_items_after_dropping = df['item_name'].drop_duplicates().nunique()
      print({unique_items_after_dropping})
     {38}
[29]: # Display the count of entries for each category, including duplicates
      category_counts3= df['item_price'].value_counts()
      print(category_counts3)
     8.75
              730
     11.25
              521
     9.25
              398
     8.49
              311
     11.75
              284
     1.25
              264
     8.99
              246
     10.98
               99
     1.09
               84
     6.49
               53
     11.48
               51
     3.39
               45
     17.50
               40
     2.50
               27
     11.89
               26
     2.18
               19
     8.69
               19
     16.98
               19
     9.39
               17
     8.19
               14
     22.50
               13
     18.50
               12
     7.40
               11
     21.96
               10
     11.08
               10
     17.98
                7
     3.75
                7
     23.50
                6
     10.58
                5
     5.00
                3
```

```
6.78
                2
     8.50
                2
     22.16
                2
     35.00
                2
     27.75
                2
     23.78
                2
     35.25
     16.38
     33.75
                1
     4.36
                1
     12.98
                1
     26.07
                1
     22.96
                1
     32.94
     22.20
     11.49
                1
     Name: item_price, dtype: int64
[30]: # Calculate the total number of duplicate values of order_id column
      total_duplicate_values3 = len(category_counts3)
      print(total_duplicate_values3)
     47
[31]: # Calculating the mean without handling duplicates of order_id column
      mean_without_duplicates = df['item_price'].mean()
      print({mean_without_duplicates})
     {9.011321090047451}
[32]: # Calculating the mean after dropping duplicates
      mean_with_duplicates_handled = df['item_price'].drop_duplicates().mean()
      print({mean_with_duplicates_handled})
     {14.496382978723403}
[33]: # Dropping duplicates from 'item_name' column permanently
      df['item_price'] = df['item_price'].drop_duplicates()
[34]: df
[34]:
            order_id quantity
                                         item_name \
                                              Tzze
                 1.0
      1
                             1
      2
                 NaN
                             1
                                  Nantucket Nectar
                             2
                                      Chicken Bowl
      4
                 2.0
      5
                 3.0
                             1
                                      Chicken Bowl
                 4.0
                                     Steak Burrito
```

26.25

```
4617
               1833.0
                              1
                                       Steak Burrito
      4618
                  NaN
                              1
                                       Steak Burrito
      4619
               1834.0
                                  Chicken Salad Bowl
      4620
                 NaN
                                  Chicken Salad Bowl
                              1
                                 Chicken Salad Bowl
      4621
                 NaN
                                             choice_description item_price
      1
                                                    [Clementine]
                                                                         3.39
      2
                                                         [Apple]
                                                                          NaN
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                                                                      16.98
      5
            [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                                                                      10.98
      7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                      11.75
            [Fresh Tomato Salsa, [Rice, Black Beans, Sour ...
      4617
                                                                        NaN
            [Fresh Tomato Salsa, [Rice, Sour Cream, Cheese...
      4618
                                                                        NaN
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
      4619
                                                                        NaN
      4620
            [Fresh Tomato Salsa, [Fajita Vegetables, Lettu...
                                                                        NaN
      4621
            [Fresh Tomato Salsa, [Fajita Vegetables, Pinto...
                                                                        NaN
      [3376 rows x 5 columns]
[35]: #Finding missing value
      missing_values = df.isnull()
      print(missing_values)
            order_id
                      quantity
                                 item_name
                                             choice_description
                                                                  item_price
     1
               False
                         False
                                     False
                                                                       False
                                                          False
     2
                True
                         False
                                     False
                                                          False
                                                                        True
     4
               False
                         False
                                     False
                                                          False
                                                                       False
     5
               False
                         False
                                     False
                                                          False
                                                                       False
     7
               False
                         False
                                     False
                                                          False
                                                                       False
     4617
               False
                         False
                                     False
                                                          False
                                                                        True
                         False
                                                                        True
     4618
                True
                                     False
                                                          False
               False
                         False
                                     False
                                                          False
                                                                        True
     4619
     4620
                True
                         False
                                     False
                                                          False
                                                                        True
                         False
     4621
                True
                                     False
                                                          False
                                                                        True
     [3376 rows x 5 columns]
[36]: # Counting missing values in each column
      missing_values_count = df.isnull().sum()
      print(missing_values_count)
     order_id
                             1543
     quantity
                                0
```

0

item_name

choice_description 0 item_price 3329 dtype: int64 [37]: #Tackeling missing values df_cleaned = df.dropna(inplace=True) print(df_cleaned) None [38]: df item_name \ [38]: order_id quantity 1 1.0 1 Izze 4 2.0 2 Chicken Bowl 5 3.0 1 Chicken Bowl 7 4.0 Steak Burrito 1 11 6.0 1 Chicken Crispy Tacos 13 7.0 1 Chicken Bowl 16 8.0 1 Chicken Burrito 21 11.0 1 Barbacoa Burrito 135 60.0 2 Chicken Salad Bowl 147 66.0 1 Steak Burrito 148 67.0 2 Steak Burrito 2 150 68.0 Chicken Burrito 2 281 123.0 Steak Salad Bowl 322 140.0 1 Steak Burrito 353 152.0 2 Steak Burrito 409 178.0 3 Chicken Bowl 445 3 Bowl 193.0 476 Chicken Burrito 204.0 1 510 214.0 1 Burrito 606 250.0 1 Steak Salad Bowl 728 301.0 1 Steak Burrito 1254 4 Chicken Burrito 511.0 1514 616.0 3 Chicken Bowl 2 1718 692.0 Chicken Burrito 2235 4 901.0 Canned Soda 2954 2 Steak Burrito 1175.0 3334 3 1336.0 Steak Bowl 3480 1398.0 3 Carnitas Bowl 4235 1691.0 Chicken Bowl choice_description item_price

[Tomatillo-Red Chili Salsa (Hot), [Black Beans...

[Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...

[Clementine]

3.39

16.98

10.98

1

4

```
[Roasted Chili Corn Salsa, [Fajita Vegetables,...
      11
                                                                     8.75
      13
            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                                                                    11.25
      16
            [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
                                                                     8.49
      21
            [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
                                                                     8.99
      135
            [Tomatillo Green Chili Salsa, [Sour Cream, Che...
                                                                    22.50
      147
            [Tomatillo-Green Chili Salsa (Medium), [Rice, ...
                                                                    11.48
      148
            [Tomatillo-Red Chili Salsa (Hot), [Rice, Chees...
                                                                    17.98
      150
            [Tomatillo Red Chili Salsa, [Rice, Black Beans...
                                                                    17.50
      281
            [Tomatillo Red Chili Salsa, [Black Beans, Chee...
                                                                    23.78
      322
            [Fresh Tomato (Mild), [Lettuce, Guacamole, Ric...
                                                                    11.08
      353
            [Fresh Tomato (Mild), [Lettuce, Guacamole, Ric...
                                                                    22.16
      409
            [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
                                                                    32.94
      445
            [Braised Carnitas, Pinto Beans, [Sour Cream, C...
                                                                    22.20
      476
            [Fresh Tomato (Mild), [Guacamole, Lettuce, Ric...
                                                                    10.58
      510
            [Adobo-Marinated and Grilled Chicken, Pinto Be...
                                                                     7.40
      606
            [Fresh Tomato Salsa, [Pinto Beans, Cheese, Gua...
                                                                    11.89
      728
            [Roasted Chili Corn (Medium), [Sour Cream, Che...
                                                                     8.69
      1254
            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                                                                    35.00
      1514
            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
                                                                    26.25
            [Tomatillo-Red Chili Salsa (Hot), [Lettuce, Gu...
      1718
                                                                    21.96
      2235
                                                       [Sprite]
                                                                       4.36
      2954
            [[Tomatillo-Green Chili Salsa (Medium), Roaste...
                                                                    22.96
      3334
            [Tomatillo Green Chili (Medium), [Rice, Black ...
                                                                    26.07
      3480
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
                                                                    35.25
      4235
                                                   [White Rice]
                                                                       8.50
[39]: #Examine the Quantity and Item Price columns
      print(df['quantity'].unique())
     [1 2 3 4]
[40]: print(df['item_price'].unique())
     [ 3.39 16.98 10.98 11.75 8.75 11.25 8.49 8.99 22.5 11.48 17.98 17.5
      23.78 11.08 22.16 32.94 22.2 10.58 7.4 11.89 8.69 35.
                                                                    26.25 21.96
       4.36 22.96 26.07 35.25 8.5 ]
[41]: # Display unique values in the 'Choice Description' column
      unique_choices = df['choice_description'].unique()
      print(unique_choices)
     ['[Clementine]'
      '[Tomatillo-Red Chili Salsa (Hot), [Black Beans, Rice, Cheese, Sour Cream]]'
      '[Fresh Tomato Salsa (Mild), [Rice, Cheese, Sour Cream, Guacamole, Lettuce]]'
      '[Tomatillo Red Chili Salsa, [Fajita Vegetables, Black Beans, Pinto Beans,
     Cheese, Sour Cream, Guacamole, Lettuce]]'
```

[Tomatillo Red Chili Salsa, [Fajita Vegetables...

11.75

7

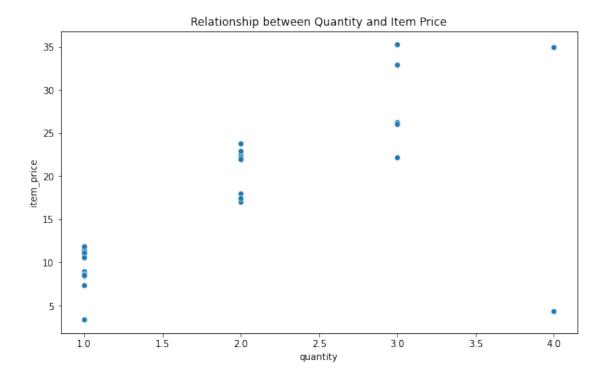
'[Roasted Chili Corn Salsa, [Fajita Vegetables, Rice, Black Beans, Cheese, Sour

```
Cream]]'
      '[Fresh Tomato Salsa, [Fajita Vegetables, Rice, Cheese, Sour Cream,
     Guacamole]]'
      '[Tomatillo-Green Chili Salsa (Medium), [Pinto Beans, Cheese, Sour Cream]]'
      '[[Fresh Tomato Salsa (Mild), Tomatillo-Green Chili Salsa (Medium), Tomatillo-
     Red Chili Salsa (Hot)], [Rice, Cheese, Sour Cream, Lettuce]]'
      '[Tomatillo Green Chili Salsa, [Sour Cream, Cheese, Guacamole]]'
      '[Tomatillo-Green Chili Salsa (Medium), [Rice, Black Beans, Sour Cream,
     Guacamole]]'
      '[Tomatillo-Red Chili Salsa (Hot), [Rice, Cheese, Sour Cream, Lettuce]]'
      '[Tomatillo Red Chili Salsa, [Rice, Black Beans, Sour Cream, Cheese, Lettuce]]'
      '[Tomatillo Red Chili Salsa, [Black Beans, Cheese, Guacamole]]'
      '[Fresh Tomato (Mild), [Lettuce, Guacamole, Rice, Cheese]]'
      '[[Fresh Tomato Salsa (Mild), Tomatillo-Green Chili Salsa (Medium), Roasted
     Chili Corn Salsa (Medium)], [Black Beans, Rice, Fajita Veggies, Cheese,
     Guacamole, Lettuce]]'
      '[Braised Carnitas, Pinto Beans, [Sour Cream, Cheese, Cilantro-Lime Rice]]'
      '[Fresh Tomato (Mild), [Guacamole, Lettuce, Rice, Fajita Veggies, Sour Cream,
     Cheese]]'
      '[Adobo-Marinated and Grilled Chicken, Pinto Beans, [Sour Cream, Salsa, Cheese,
     Cilantro-Lime Rice, Guacamole]]'
      '[Fresh Tomato Salsa, [Pinto Beans, Cheese, Guacamole, Lettuce]]'
      '[Roasted Chili Corn (Medium), [Sour Cream, Cheese]]'
      '[Fresh Tomato Salsa, [Fajita Vegetables, Rice, Black Beans, Cheese, Lettuce]]'
      '[Fresh Tomato Salsa, [Rice, Black Beans, Cheese, Sour Cream, Lettuce]]'
      '[Tomatillo-Red Chili Salsa (Hot), [Lettuce, Guacamole, Sour Cream, Cheese,
     Rice, Black Beans]]'
      '[Sprite]'
      '[[Tomatillo-Green Chili Salsa (Medium), Roasted Chili Corn Salsa (Medium),
     Tomatillo-Red Chili Salsa (Hot)], [Black Beans, Rice, Cheese, Sour Cream,
     Guacamole, Lettuce]]'
      '[Tomatillo Green Chili (Medium), [Rice, Black Beans, Sour Cream, Cheese]]'
      '[Roasted Chili Corn Salsa, [Fajita Vegetables, Rice, Black Beans, Cheese, Sour
     Cream, Guacamole, Lettuce]]'
      '[White Rice]']
[42]: #Concatenate multiple descriptions into one string
      df['Aggregated_Choice'] = df.groupby('item_name')['choice_description'].

→transform(lambda x: '; '.join(x))
[43]: #this method Keeps only the first description for each item
      df['First_Choice'] = df.groupby('item_name')['choice_description'].
       ⇔transform('first')
[44]: df.head(10)
```

```
[44]:
           order_id quantity
                                            item_name \
      1
                 1.0
                             1
                                                  Izze
      4
                 2.0
                             2
                                         Chicken Bowl
      5
                 3.0
                             1
                                         Chicken Bowl
      7
                 4.0
                             1
                                        Steak Burrito
      11
                 6.0
                             1
                                 Chicken Crispy Tacos
      13
                 7.0
                             1
                                         Chicken Bowl
      16
                 8.0
                             1
                                      Chicken Burrito
      21
               11.0
                             1
                                     Barbacoa Burrito
      135
               60.0
                             2
                                   Chicken Salad Bowl
      147
               66.0
                             1
                                        Steak Burrito
                                            choice_description item_price \
                                                   [Clementine]
                                                                        3.39
      1
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                                                                     16.98
      5
            [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                                                                     10.98
      7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                                     11.75
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
                                                                      8.75
      11
      13
            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                                                                     11.25
      16
            [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
                                                                      8.49
      21
            [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
                                                                      8.99
      135
           [Tomatillo Green Chili Salsa, [Sour Cream, Che...
                                                                     22.50
      147
            [Tomatillo-Green Chili Salsa (Medium), [Rice, ...
                                                                     11.48
                                              Aggregated_Choice \
                                                   [Clementine]
      1
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      5
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
      11
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
      13
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      16
           [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
      21
           [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
      135
           [Tomatillo Green Chili Salsa, [Sour Cream, Che...
      147
           [Tomatillo Red Chili Salsa, [Fajita Vegetables...
                                                   First Choice
      1
                                                   [Clementine]
      4
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      5
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      7
            [Tomatillo Red Chili Salsa, [Fajita Vegetables...
            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
      11
      13
            [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      16
            [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
            [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
      21
      135
           [Tomatillo Green Chili Salsa, [Sour Cream, Che...
      147
           [Tomatillo Red Chili Salsa, [Fajita Vegetables...
```

```
[45]: #cross checking the order id
      #check for null values
      null_order_ids = df[df['order_id'].isnull()]
      print(null_order_ids)
     Empty DataFrame
     Columns: [order_id, quantity, item_name, choice_description, item_price,
     Aggregated_Choice, First_Choice]
     Index: []
[46]: # Check for duplicate Order IDs
      duplicate_order_ids = df[df.duplicated('order_id')]
      print(duplicate_order_ids)
     Empty DataFrame
     Columns: [order_id, quantity, item_name, choice_description, item_price,
     Aggregated_Choice, First_Choice]
     Index: []
[47]:
         Input In [47]
           def find_special_characters(item_name):
       IndentationError: unexpected indent
[52]: plt.figure(figsize=(10, 6))
      sns.scatterplot(x='quantity', y='item_price', data=df)
      plt.title('Relationship between Quantity and Item Price')
      plt.xlabel('quantity')
      plt.ylabel('item_price')
      plt.show()
```



```
[61]: # Calculating the correlation between 'quantity' and 'item_price'
correlation = df['quantity'].corr(df['item_price'])
print(correlation)
```

0.7014176320697094

[63]: print(df_encoded)

```
choice_description \
      order_id quantity
           1.0
                                                                  [Clementine]
1
                        1
4
           2.0
                        2
                           [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
5
           3.0
                           [Fresh Tomato Salsa (Mild), [Rice, Cheese, Sou...
                           [Tomatillo Red Chili Salsa, [Fajita Vegetables...
7
           4.0
           6.0
                           [Roasted Chili Corn Salsa, [Fajita Vegetables,...
11
                        1
           7.0
                           [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
13
                        1
16
           8.0
                        1
                           [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
          11.0
                           [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
21
                        1
135
          60.0
                        2 [Tomatillo Green Chili Salsa, [Sour Cream, Che...
                           [Tomatillo-Green Chili Salsa (Medium), [Rice, ...
          66.0
                        1
147
          67.0
                           [Tomatillo-Red Chili Salsa (Hot), [Rice, Chees...
148
                           [Tomatillo Red Chili Salsa, [Rice, Black Beans...
150
          68.0
```

```
281
         123.0
                            [Tomatillo Red Chili Salsa, [Black Beans, Chee...
322
         140.0
                            [Fresh Tomato (Mild), [Lettuce, Guacamole, Ric...
353
                            [Fresh Tomato (Mild), [Lettuce, Guacamole, Ric...
         152.0
                           [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
409
         178.0
445
         193.0
                            [Braised Carnitas, Pinto Beans, [Sour Cream, C...
                            [Fresh Tomato (Mild), [Guacamole, Lettuce, Ric...
476
         204.0
510
         214.0
                            [Adobo-Marinated and Grilled Chicken, Pinto Be...
606
         250.0
                            [Fresh Tomato Salsa, [Pinto Beans, Cheese, Gua...
728
         301.0
                        1
                            [Roasted Chili Corn (Medium), [Sour Cream, Che...
1254
         511.0
                        4
                            [Fresh Tomato Salsa, [Fajita Vegetables, Rice,...
                            [Fresh Tomato Salsa, [Rice, Black Beans, Chees...
                        3
1514
         616.0
                        2
                            [Tomatillo-Red Chili Salsa (Hot), [Lettuce, Gu...
1718
         692.0
2235
                        4
         901.0
                                                                        [Sprite]
                        2
                            [[Tomatillo-Green Chili Salsa (Medium), Roaste...
2954
        1175.0
3334
        1336.0
                            [Tomatillo Green Chili (Medium), [Rice, Black ...
                            [Roasted Chili Corn Salsa, [Fajita Vegetables,...
3480
        1398.0
4235
        1691.0
                        1
                                                                   [White Rice]
      item_price
                                                     Aggregated_Choice
            3.39
                                                           [Clementine]
1
4
           16.98
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
5
           10.98
7
           11.75
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
11
            8.75
                   [Roasted Chili Corn Salsa, [Fajita Vegetables,...
13
           11.25
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
            8.49
16
                   [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
            8.99
                   [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
21
135
           22.50
                   [Tomatillo Green Chili Salsa, [Sour Cream, Che...
           11.48
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
147
148
           17.98
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
150
           17.50
                   [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
281
           23.78
                   [Tomatillo Red Chili Salsa, [Black Beans, Chee...
322
           11.08
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
353
           22.16
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
           32.94
409
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
           22.20
445
                   [Braised Carnitas, Pinto Beans, [Sour Cream, C...
476
           10.58
                   [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
510
            7.40
                   [Adobo-Marinated and Grilled Chicken, Pinto Be...
           11.89
606
                   [Tomatillo Red Chili Salsa, [Black Beans, Chee...
728
            8.69
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
           35.00
                   [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
1254
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
           26.25
1514
           21.96
                   [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
1718
            4.36
2235
2954
           22.96
                   [Tomatillo Red Chili Salsa, [Fajita Vegetables...
3334
           26.07
                   [Tomatillo Green Chili (Medium), [Rice, Black ...
3480
           35.25
                   [Roasted Chili Corn Salsa, [Fajita Vegetables,...
4235
            8.50
                   [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
```

```
[Clementine]
1
4
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
5
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
7
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
11
      [Roasted Chili Corn Salsa, [Fajita Vegetables,...
13
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
16
      [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
21
      [[Fresh Tomato Salsa (Mild), Tomatillo-Green C...
      [Tomatillo Green Chili Salsa, [Sour Cream, Che...
135
147
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
148
      [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
150
281
      [Tomatillo Red Chili Salsa, [Black Beans, Chee...
322
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
353
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
409
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
445
      [Braised Carnitas, Pinto Beans, [Sour Cream, C...
476
      [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
510
      [Adobo-Marinated and Grilled Chicken, Pinto Be...
606
      [Tomatillo Red Chili Salsa, [Black Beans, Chee...
728
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
1254
      [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
1514
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      [Tomatillo-Green Chili Salsa (Medium), [Pinto ...
1718
2235
                                                   [Sprite]
2954
      [Tomatillo Red Chili Salsa, [Fajita Vegetables...
3334
      [Tomatillo Green Chili (Medium), [Rice, Black ...
3480
      [Roasted Chili Corn Salsa, [Fajita Vegetables,...
4235
      [Tomatillo-Red Chili Salsa (Hot), [Black Beans...
      item_Barbacoa Burrito
                              item_Bowl
                                           item_Burrito
                                                          item_Canned Soda
                                                       0
1
                            0
                                        0
                                                                          0
4
                            0
                                                       0
                                                                          0
                                        0
5
                            0
                                        0
                                                       0
                                                                          0
7
                                                       0
                            0
                                        0
                                                                          0
11
                            0
                                        0
                                                       0
                                                                          0
13
                            0
                                        0
                                                       0
                                                                          0
16
                            0
                                        0
                                                       0
                                                                          0
21
                            1
                                        0
                                                       0
                                                                          0
                            0
                                        0
                                                       0
                                                                          0
135
147
                            0
                                        0
                                                       0
                                                                          0
                            0
                                        0
                                                       0
                                                                          0
148
                                        0
150
                            0
                                                       0
                                                                          0
281
                            0
                                        0
                                                                          0
322
                            0
                                        0
                                                       0
                                                                          0
353
                                        0
                                                                          0
```

First_Choice \

```
409
                              0
                                           0
                                                           0
                                                                                0
445
                              0
                                           1
                                                           0
                                                                                0
476
                              0
                                           0
                                                           0
                                                                                0
510
                              0
                                           0
                                                                                0
606
                              0
                                           0
                                                           0
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728
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