Selected files

1 printable files

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customer_analysis.ipynb
customer_analysis.ipynb
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        "- Understand purchasing trends and behaviours\n",
        "- Identifying customer segments and their chip purchasing behaviour \n",
 10
       "- Consider what metrics would help describe the customers' purchasing behaviour. "
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 19
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        "import pandas as pd\n",
        21
 22
 23
        "customer_data = pd.read_csv('../Quantium Project/QVI_purchase_behaviour.csv')"
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          "\n",
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                LYLTY_CARD_NBR\n",
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 56
 57
               PROD NAME\n",
 58
               PROD_QTY\n",
                TOT_SALES\n",
 59
 60
              \n",
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          " \n",
 62
              \n",
 63
 64
                0\n",
 65
                43390\n",
 66
                1\n",
 67
                1000\n"
```

68

```
69
              5\n",
70
              Natural Chip
                                Compny SeaSalt175g\n",
 71
              2\n",
72
              6.0\n",
73
            \n",
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            \n",
75
             1\n",
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              43599\n",
 77
              1\n",
78
              1307\n"
79
             348\n",
 80
             66\n",
                                175g\n",
81
              CCs Nacho Cheese
82
              3\n",
83
              6.3\n",
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            \n",
85
            \n",
 86
              2
n",
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              43605\n",
88
              1\n"
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              1343\n",
90
              383
 91
              61\n",
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93
              2\n",
94
              2.9\n",
95

n",
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            \n",
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             3\n",
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             43329\n",
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              2\n"
100
              2373\n",
101
              974\n"
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105
              15.0\n",
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            \n",
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              1038\n",
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              108\n"
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                                                66
                                                    \n",
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                                        383
                                                    \n".
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                                                61
127
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                                 2373
                                        974
                                                69
                                                    \n",
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         "1
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                                                       6.3 \n",
                       CCs Nacho Cheese
132
                                                 3
133
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            Smiths Crinkle Cut Chips Chicken 170g
                                                 2
                                                       2.9 \n",
         "3
134
                                                      15.0 \n",
            Smiths Chip Thinly S/Cream&Onion 175g
                                                 5
135
         "4 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                 3
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184
185
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186
             \n",
187
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188
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189
190
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194
               1003\n",
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196
197
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199
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200
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               OLDER SINGLES/COUPLES\n",
201
202
               Mainstream\n",
203

n",
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244
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          "---
245
                              -----\n",
          " 0 DATE
246
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          " 5 PROD_NAME
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252
          " 6 PROD_QTY
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          " 7 TOT_SALES
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          "---
                                -----\n",
261
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262
          " 1 LIFESTAGE
                            72637 non-null object\n",
263
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          "memory usage: 1.7+ MB\n",
267
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268
         ]
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270
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                                                              61 \n",
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                                                  974
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                                                             108 \n",
292
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                                           2426 1038
293
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          "0
                                  Compny SeaSalt175g
295
                Natural Chip
                                                      2 6.0 \n",
296
                             CCs Nacho Cheese 175g
                                                                    6.3 \n",
```

```
"2
297
             Smiths Crinkle Cut Chips Chicken 170g
                                                       2
                                                              2.9 \n",
298
         "3
              Smiths Chip Thinly S/Cream&Onion 175g
                                                              15.0 \n"
                                                       5
299
         "4 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                              13.8 \n"
300
301
302
      ],
303
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304
       "# converting date coulmn in the transaction_data to datetime \n",
305
       "transaction_data[\"DATE\"] = pd.to_numeric(transaction_data[\"DATE\"], errors=\"coerce\")\n",
306
       "print(transaction_data[\"DATE\"].isna().sum()) # Check if any NaN values exist\n",
307
       "\n",
       "# Convert the integer date (assuming it's days since 30 Dec 1899) to actual dates\n",
308
       "transaction_data[\"DATE\"] = pd.to_datetime(transaction_data[\"DATE\"], origin=\"1899-12-30\", unit=\"D\", errors=\"coerce\")\n",
309
310
       "\n",
311
       "# Display the first few rows to verify\n",
312
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               264836.00000
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361
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370
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372
                min\n".
```

```
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               2018-07-01 00:00:00\n",
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               1.000000\n",
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385
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               6.760150e+04\n",
387
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390

n",
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446
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                               PROD_NBR
                                            PROD_QTY
                                                       TOT_SALES \n",
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447
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                                       264836.000000 264836.000000 \n",
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```

\n",

\n".

\n",

\n"

\n",

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"min
449
                    1.000000e+00
                                        1.000000
                                                        1.000000
                                                                       1.500000
450
            "25%
                    6.760150e+04
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                                                        2.000000
                                                                       5.400000
                    1.351375e+05
451
            "50%
                                       56.000000
                                                        2.000000
                                                                        7.400000
            "75%
452
                    2.027012e+05
                                       85.000000
                                                        2.000000
                                                                       9.200000
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            "max
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                                                      200.000000
                                                                      650.000000
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                                                           114\n"
479
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                      Kettle Mozzarella Basil & Pesto 175g\n"
480
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                                                          3304\n",
481
           "Name: PROD_NAME, dtype: object\n",
           "\n",
482
483
           "Number of unique product names: 114\n",
484
           "\n",
485
           "Top 10 most common product names:\n",
486
           "PROD_NAME\n",
487
           "Kettle Mozzarella Basil & Pesto 175g
                                                          3304\n",
488
           "Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                          3296\n".
489
           "Cobs Popd Swt/Chlli &Sr/Cream Chips 110g
                                                          3269\n",
490
           "Tyrrells Crisps
                                 Ched & Chives 165g
                                                          3268\n",
491
           "Cobs Popd Sea Salt Chips 110g
                                                          3265\n".
492
           "Kettle 135g Swt Pot Sea Salt
                                                          3257\n",
           "Tostitos Splash Of Lime 175g
493
                                                          3252\n"
           "Infuzions Thai SweetChili PotatoMix 110g
494
                                                          3242\n".
495
           "Smiths Crnkle Chip Orgnl Big Bag 380g
                                                          3233\n".
           "Thins Potato Chips Hot & Spicy 175g
496
                                                          3229\n",
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499
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502
503
         "print(\"General Summary:\")\n",
504
         "print(transaction_data[\"PROD_NAME\"].describe())\n",
         "\n",
505
506
         "# Count unique product names\n",
507
         "unique_count = transaction_data[\"PROD_NAME\"].nunique()\n",
         "print(f\"\\nNumber of unique product names: {unique_count}\")\n",
508
509
         "\n",
510
         "# Top 10 most frequent product names\n",
         "print(\"\\nTop 10 most common product names:\")\n",
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         "print(transaction_data[\"PROD_NAME\"].value_counts().head(10))"
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514
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           "Top 20 most common words in product names:\n",
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```
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     25102), ('doritos', 24962), ('crinkle', 23960), ('110g', 22387), ('corn', 22063), ('original', 21560), ('cut', 20754), ('chip', 18645), ('170g',
     ('chicken', 15407)]\n",
526
527
           "Potentially incorrect product words (may not be chips):\n",
     "['natural', 'chip', 'compny', 'seasalt175g', 'ccs', 'nacho', '175g', 'smiths', 'crinkle', 'cut', 'chicken', '170g', 'thinly', 's/cream&on: 'chpshny&jlpno', 'chili', '150g', 'old']\n",
528
529
           "\n",
530
           "Suspicious product names (potential non-chips):\n",
531
                                                PROD NAME\n".
532
           "0
                  Natural Chip
                                       Compny SeaSalt175g\n",
           "1
533
                                 CCs Nacho Cheese
                                                    175g\n"
           "2
                  Smiths Crinkle Cut Chips Chicken 170g\n"
534
535
           "3
                  Smiths Chip Thinly S/Cream&Onion 175g\n",
536
           "4
                Kettle Tortilla ChpsHny&Jlpno Chili 150g\n",
           "5
537
                Old El Paso Salsa Dip Tomato Mild 300g\n"
538
           "6
                Smiths Crinkle Chips Salt & Vinegar 330g\n",
           "7
539
                                       Sweet Chilli 210g\n"
                   Grain Waves
           "8
                 Doritos Corn Chip Mexican Jalapeno 150g\n",
540
           "9
541
                   Grain Waves Sour Cream&Chives 210G\n",
542
           "10 Smiths Crinkle Chips Salt & Vinegar 330g\n",
           "11
                 Kettle Sensations Siracha Lime 150g\n"
543
544
           "12
                                Twisties Cheese
                                                     270g\n"
545
           "13
                        WW Crinkle Cut
                                            Chicken 175g\n"
           "14
                          Thins Chips Light& Tangy 175g\n",
546
547
           "15
                                       CCs Original 175g\n",
548
           "16
                                        Burger Rings 220g\n",
549
           "17
                 NCC Sour Cream &
                                       Garden Chives 175g\n"
550
           "18
                 Doritos Corn Chip Southern Chicken 150g\n",
551
           "19
                                Cheezels Cheese Box 125g\n"
552
          1
553
554
555
        "source": [
556
         "import pandas as pd\n",
         "from collections import Counter\n",
557
         "import re\n",
558
         "\n",
559
         "# Ensure column exists\n",
560
         "if \"PROD_NAME\" in transaction_data.columns:\n",
561
              # Convert all product names to lowercase and split into words\n",
562
563
              all_words = transaction_data[\"PROD_NAME\"].str.lower().str.split()\n",
         "\n",
564
              # Flatten list of lists into a single list of words\n",
565
              words = [word for sublist in all_words.dropna() for word in sublist]\n",
566
         "\n",
567
568
              # Count frequency of words\n"
569
              word_counts = Counter(words)\n",
570
         "\n",
571
              # Display the most common words\n",
572
              print(\"Top 20 most common words in product names:\")\n",
573
              print(word counts.most common(20))\n",
574
         "\n",
575
              \# Identify words that may indicate non-chip products\n",
              common chip words = {\"chips\", \"potato\", \"crisps\", \"salted\", \"bbq\", \"cheese\", \"flavor\"}\n",
576
577
              uncommon_words = [word for word, count in word_counts.items() if word not in common_chip_words]\n",
         "\n"
578
579
              print(\"\\nPotentially incorrect product words (may not be chips):\")\n",
580
              print(uncommon_words[:20]) # Display top 20 unusual words\n",
         "\n",
581
582
              # Filter rows with suspicious words\n",
              transaction_data[\"is_suspicious\"] = transaction_data[\"PROD_NAME\"].apply(lambda x: any(word in x.lower() for word in uncommon_words)
583
584
              suspicious_products = transaction_data[transaction_data[\"is_suspicious\"]]\n",
585
         "\n",
586
              print(\"\\nSuspicious product names (potential non-chips):\")\n",
              print(suspicious_products[[\"PROD_NAME\"]].head(20)) # Show first 20 suspicious products\n",
587
588
589
              print(\"Column 'PROD_NAME' not found in the dataset. Check column names:\", transaction_data.columns)\n"
590
        ]
591
       },
592
        "cell_type": "code",
593
594
        "execution_count": 9,
595
        "metadata": {},
596
        "outputs": [
597
```

```
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598
599
          "output_type": "stream",
600
          "text": [
601
           "Top 20 most common words in product names:\n",
602
                  Word Frequency\n",
603
           "0
                      g
604
           "1
                  chips
                              49770\n"
605
           "2
                 kettle
                              41288\n",
606
           "3
                              28860\n"
                 smiths
           "4
607
                   salt
                              27976\n"
608
                 cheese
                              27890\n",
           "6 pringles
609
                              25102\n",
           "7
610
                 doritos
                              24962\n"
           "8
611
                crinkle
                              23960\n",
612
           "9
                              22063\n",
           "10 original
613
                              21560\n",
           "11
                              20754\n",
614
                   cut
615
           "12
                   chip
                              18645\n",
           "13
616
                  salsa
                              18094\n"
617
           "14
                              15407\n",
                chicken
           "15
618
                     sea
                              14145\n",
           "16
619
                  thins
                              14075\n"
620
           "17
                chilli
                              13895\n",
621
           "18
                              13882\n",
                   sour
           "19
                              12607\n"
622
                 crisps
623
624
625
626
        "source": [
627
        "\n",
         "# Ensure column exists\n",
628
629
         "if \"PROD_NAME\" in transaction_data.columns: \n",
630
         " # Convert all product names to lowercase\n",
            transaction_data[\"cleaned_name\"] = transaction_data[\"PROD_NAME\"].str.lower()\n",
631
         "\n",
632
633
             # Remove digits and special characters (keep only letters and spaces)\n",
            transaction_data[\"cleaned_name\"] = transaction_data[\"cleaned_name\"].apply(lambda x: re.sub(r\"[^a-z\\s]\", \"\", x))\n",
634
         "\n",
635
636
             # Tokenize words (split into individual words)\n",
637
            all_words = transaction_data[\"cleaned_name\"].str.split()\n",
638
639
              # Flatten list of lists into a single list of words\n",
             words = [word for sublist in all_words.dropna() for word in sublist]\n",
640
641
         "\n",
642
             # Count word frequency\n",
            word counts = Counter(words)\n",
643
644
645
             # Sort words by frequency (highest to lowest)\n",
646
             sorted words = sorted(word counts.items(), key=lambda x: x[1], reverse=True)\n",
647
         "\n",
648
             # Convert to DataFrame for better viewing\n",
            word_freq_df = pd.DataFrame(sorted_words, columns=[\"Word\", \"Frequency\"])\n",
649
650
             print(\"Top 20 most common words in product names:\")\n",
651
652
            print(word_freq_df.head(20))\n",
653
         "\n",
         "else:\n",
654
              print(\"Column 'PROD_NAME' not found in the dataset. Check column names:\", transaction_data.columns)"
655
656
        ]
657
       },
658
659
        "cell_type": "code";
660
        "execution_count": 10,
        "metadata": {},
661
662
        "outputs": [
663
          "name": "stdout",
664
665
          "output_type": "stream",
          "text": [
666
667
                   DATE STORE_NBR LYLTY_CARD_NBR TXN_ID PROD_NBR \\\n",
           "0 2018-10-17
668
                                               1000
                                                          1
                                                                         \n",
           "1 2019-05-14
                                                        348
                                                                    66
                                                                         \n",
669
                                  1
                                               1307
           "2 2019-05-20
                                                        383
                                                                         \n",
670
                                  1
                                               1343
                                                                    61
671
           "3 2018-08-17
                                  2
                                               2373
                                                        974
                                                                    69
                                                                         \n",
           "4 2018-08-18
672
                                  2
                                               2426
                                                       1038
                                                                   108
                                                                        \n",
           "\n",
673
```

```
674
                                              PROD_NAME PROD_QTY TOT_SALES \\\n",
675
           "0
                Natural Chip
                                    Compny SeaSalt175g
                                                                2
                                                                         6.0
                                                                               \n".
676
                              CCs Nacho Cheese 175g
                                                                         6.3
                                                                               \n",
677
           "2
                Smiths Crinkle Cut Chips Chicken 170g
                                                                2
                                                                         2.9
                                                                               \n"
                Smiths Chip Thinly S/Cream&Onion 175g
                                                                        15.0
                                                                               \n",
678
679
           "4 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                                        13.8
                                                                               \n",
           "\n",
680
681
              is_suspicious
                                                      cleaned name \n",
682
           "0
                       True
                              natural chip
                                                  compny seasaltg \n",
           "1
683
                       True
                                             ccs nacho cheese g \n",
684
           "2
                       True
                             smiths crinkle cut chips chicken g \n",
           "3
685
                       True
                              smiths chip thinly screamonion g \n",
           "4
686
                       True kettle tortilla chpshnyjlpno chili g \n",
687
           "Number of products removed: 18094\n"
688
689
690
        1,
691
        "source": [
         "# Remove rows where PROD_NAME contains 'salsa' (case-insensitive)\n",
692
693
         "transaction data filtered = transaction data[~transaction data[\"PROD NAME\"].str.contains(\"salsa\", case=False, na=False)]\n",
694
         "# Display the first few rows of the filtered dataset\n",
695
696
         "print(transaction_data_filtered.head())\n",
697
         "# Check how many rows were removed\n",
698
699
         "print(f\"Number of products removed: {transaction_data.shape[0] - transaction_data_filtered.shape[0]}\")\n"
700
701
       },
702
703
        "cell_type": "code",
        "execution_count": 11,
704
705
        "metadata": {},
706
        "outputs": [
707
          "name": "stdout",
708
709
          "output_type": "stream",
          "text": [
710
711
                                            DATE
                                                      STORE_NBR LYLTY_CARD_NBR \\\n",
712
          "count
                                          246742 246742,000000
                                                                   2.467420e+05
                                                                                  \n",
713
           "mean 2018-12-30 01:19:01.211467520
                                                    135.051098
                                                                  1.355310e+05
                                                                                  \n".
714
           "min
                            2018-07-01 00:00:00
                                                      1.000000
                                                                   1.000000e+03
                                                                                  \n",
715
          "25%
                            2018-09-30 00:00:00
                                                      70.000000
                                                                  7.001500e+04
                                                                                 \n",
           "50%
                                                     130,000000
                                                                   1.303670e+05
                                                                                  \n".
716
                             2018-12-30 00:00:00
717
           "75%
                             2019-03-31 00:00:00
                                                     203.000000
                                                                   2.030840e+05
                                                                                  \n",
           "max
718
                            2019-06-30 00:00:00
                                                     272.000000
                                                                   2.373711e+06
                                                                                 \n"
           "std
719
                                             NaN
                                                     76.787096
                                                                   8.071528e+04 \n",
720
           "\n",
721
                        TXN_ID
                                      PROD NBR
                                                    PROD_QTY
                                                                   TOT SALES \n",
722
           "count 2.467420e+05 246742.000000 246742.000000 \n"
723
           "mean
                  1.351311e+05
                                     56.351789
                                                     1.908062
                                                                    7.321322 \n"
724
           "min
                  1.000000e+00
                                     1,000000
                                                     1,000000
                                                                    1.700000 \n"
           "25%
                  6.756925e+04
                                     26,000000
                                                     2,000000
                                                                    5.800000 \n".
725
                                                                    7.400000 \n",
726
          "50%
                  1.351830e+05
                                     53.000000
                                                     2.000000
           "75%
727
                  2.026538e+05
                                     87.000000
                                                    2.000000
                                                                    8.800000 \n"
                  2.415841e+06
                                    114.000000
                                                   200,000000
                                                                  650.000000 \n",
728
           "max
729
           "std
                  7.814772e+04
                                     33.695428
                                                     0.659831
                                                                    3.077828 \n"
730
731
732
        ],
        "source": [
733
734
         "print(transaction_data_filtered.describe()) # Summary statistics for numerical columns\n"
735
736
       },
737
738
        "cell_type": "code",
        "execution_count": 12,
739
740
        "metadata": {},
741
        "outputs": [
742
743
          "name": "stdout",
744
          "output_type": "stream",
745
          "text": [
746
                       DATE STORE_NBR LYLTY_CARD_NBR TXN_ID PROD_NBR \\\n",
747
           "69762 2018-08-19
                                   226
                                                 226000
                                                        226201
                                                                        4
                                                                            \n",
           "69763 2019-05-20
748
                                    226
                                                 226000 226210
                                                                            \n",
           "\n",
749
```

```
750
                                           PROD_NAME PROD_QTY TOT_SALES is_suspicious \\\n",
751
           "69762 Dorito Corn Chp
                                                            200
                                                                     650.0
                                        Supreme 380g
                                                                                     True
                                                                                            \n".
           "69763 Dorito Corn Chp
752
                                        Supreme 380g
                                                                     650.0
                                                                                     True
                                                                                            \n",
753
           "\n",
754
                                     cleaned name \n",
755
           "69762 dorito corn chp
                                        supreme g \n",
           "69763 dorito corn chp
756
                                        supreme g \n"
757
758
759
760
          "name": "stderr",
761
          "output_type": "stream",
762
          "text": [
763
           "C:\Users\\ayivo\\AppData\\Local\\Temp\\ipykernel_19852\\1696929440.py:2: UserWarning: Boolean Series key will be reindexed to match Data
764
           " outlier_transactions = transaction_data_filtered[transaction_data[\"PROD_QTY\"] == 200]\n"
765
766
767
        ],
        "source": [
768
769
         "# Filtering transactions with 200 packets\n",
770
         "outlier_transactions = transaction_data_filtered[transaction_data[\"PROD_QTY\"] == 200]\n",
771
         "print(outlier_transactions)\n"
772
773
      },
774
775
        "cell_type": "code",
776
        "execution_count": 13,
777
        "metadata": {},
        "outputs": [
778
779
          "name": "stdout".
780
781
          "output_type": "stream",
782
          "text": [
           "STORE_NBR DATE
                                   LYLTY_CARD_NBR\n",
783
784
                       2018-08-19 226000
                                                      1\n",
785
                       2019-05-20 226000
                                                      1\n",
           "dtype: int64\n"
786
787
788
789
790
        "source": [
791
         "# Check for any patterns in the outlier transactions \n",
792
         "print(outlier_transactions.groupby([\"STORE_NBR\", \"DATE\", \"LYLTY_CARD_NBR\"]).size())\n"
793
794
795
796
        "cell_type": "code",
797
        "execution_count": 14,
        "metadata": {},
798
799
        "outputs": [
800
          "name": "stdout",
801
          "output_type": "stream",
802
          "text": [
803
804
           "Outlier Customer ID: 226000\n",
805
                    DATE STORE_NBR LYLTY_CARD_NBR TXN_ID PROD_NBR \\\n",
           "0 2018-10-17
                                                                          \n",
806
                                  1
                                                1000
                                                           1
                                                                     - 5
807
           "1 2019-05-14
                                                         348
                                                                          \n",
                                  1
                                                1307
                                                                     66
                                                                         \n",
808
           "2 2019-05-20
                                                1343
           "3 2018-08-17
209
                                  2
                                                2373
                                                         974
                                                                     69
                                                                          \n",
           "4 2018-08-18
                                                                    108
810
                                                2426
                                                        1038
                                                                          \n",
811
           "\n",
812
                                               PROD_NAME PROD_QTY TOT_SALES
                                                                               \\\n"
           "0
                 Natural Chip
                                      Compny SeaSalt175g
813
                                                                 2
                                                                           6.0
                                                                                 \n".
814
           "1
                               CCs Nacho Cheese
                                                                                 \n",
           "2
                                                                                 \n",
                                                                 2
                                                                           2.9
815
                 Smiths Crinkle Cut Chips Chicken 170g
816
           "3
                                                                                 \n"
                 Smiths Chip Thinly S/Cream&Onion 175g
                                                                 5
                                                                          15.0
817
           "4
               Kettle Tortilla ChpsHny&Jlpno Chili 150g
           "\n",
818
819
                                                       cleaned name \n",
               is_suspicious
           "0
820
                        True
                                                    compny seasaltg \n",
           "1
821
                        True
                                              ccs nacho cheese
                                                                   g \n",
           "2
                               smiths crinkle cut chips chicken g \n",
822
                        True
823
           "3
                                  smiths chip thinly screamonion g \n",
           "4
824
                        True kettle tortilla chpshnyjlpno chili g \n"
825
```

```
826
827
          "name": "stderr"
828
          "output_type": "stream",
829
830
          "text": [
831
           "C:\\Users\\ayivo\\AppData\\Local\\Temp\\ipykernel_19852\\2588693242.py:10: UserWarning: Boolean Series key will be reindexed to match Data
           " filtered_data = transaction_data_filtered[transaction_data[\"LYLTY_CARD_NBR\"] != outlier_customer]\n"
832
833
          ]
834
835
836
        "source": [
         "# It looks like this customer has only had the two transactions over the year and is n,
837
         "#not an ordinary retail customer. The customer might be buying chips for commercial n,
838
839
         "#purposes instead. We'll remove this loyalty card number from further analysis.\n",
840
         "\n"
         "# Filter out the customer based on the loyalty card number \n",
841
         "outlier_customer = outlier_transactions[\"LYLTY_CARD_NBR\"].iloc[0]\n",
842
843
         "print(\"Outlier Customer ID:\", outlier_customer)\n",
844
         "\n",
845
         "# Create a new dataset excluding the outlier customer\n",
         "filtered_data = transaction_data_filtered[transaction_data[\"LYLTY_CARD_NBR\"] != outlier_customer]\n",
846
         "\n",
847
848
         "# Display first few rows to verify\n",
849
         "print(filtered_data.head())\n"
850
851
      },
852
        "cell_type": "code",
853
854
        "execution_count": 15,
855
        "metadata": {},
856
        "outputs": [
857
858
          "name": "stdout",
          "output_type": "stream",
859
860
          "text": [
861
          "Empty DataFrame\n",
           "Columns: [DATE, STORE_NBR, LYLTY_CARD_NBR, TXN_ID, PROD_NBR, PROD_NAME, PROD_QTY, TOT_SALES, is_suspicious, cleaned_name]\n",
862
863
864
865
866
        ],
867
        "source": [
         "# To confirm the removal of the outlier transactions\n".
868
869
         "print(filtered_data[filtered_data[\"LYLTY_CARD_NBR\"] == outlier_customer])\n"
870
871
       },
872
873
        "cell_type": "code",
        "execution_count": 16,
874
875
        "metadata": {},
876
        "outputs": [
877
          "name": "stdout",
878
          "output_type": "stream",
879
          "text": [
880
881
           "<class 'pandas.core.frame.DataFrame'>\n",
           "Index: 246740 entries, 0 to 264835\n",
882
883
           "Data columns (total 10 columns):\n",
884
           " # Column
                                Non-Null Count Dtype
                                                                 \n",
           "____
885
                                 _____
                                                                 \n"
           " 0 DATE
                                 246740 non-null datetime64[ns]\n",
886
887
           " 1
                 STORE_NBR
                                 246740 non-null int64
                                                                 \n",
           " 2
888
               LYLTY_CARD_NBR 246740 non-null int64
                                                                 \n"
           " 3 TXN_ID
889
                                 246740 non-null int64
                                                                 \n".
890
           " 4 PROD_NBR
                                 246740 non-null int64
                                                                 \n",
           " 5
                                                                 \n",
                PROD_NAME
                                 246740 non-null object
891
892
           " 6
                PROD QTY
                                 246740 non-null int64
                                                                 \n",
           " 7
893
                TOT_SALES
                                 246740 non-null float64
                                                                 \n",
           " 8 is_suspicious 246740 non-null bool
                                                                 \n",
894
895
           " 9 cleaned_name
                                 246740 non-null object
                                                                 \n",
           "dtypes: bool(1), datetime64[ns](1), float64(1), int64(5), object(2)\n",
896
897
           "memory usage: 19.1+ MB\n",
           "None\n"
898
899
900
901
        1.
```

```
902
        "source": [
903
         "\n",
904
         "# Verify the columns have been removed\n",
905
         "print(filtered_data.info())\n"
906
907
      },
908
909
        "cell_type": "code",
910
        "execution_count": 17,
911
        "metadata": {},
912
        "outputs": [
913
          "name": "stdout",
914
          "output_type": "stream",
915
          "text": [
916
                   DATE Transaction_Count\n",
917
          "0 2018-07-01
918
                              663\n",
919
          "1 2018-07-02
                                       650\n",
           "2 2018-07-03
                                      674\n".
920
921
           "3 2018-07-04
                                       669\n",
922
           "4 2018-07-05
           "<class 'pandas.core.frame.DataFrame'>\n",
923
924
          "RangeIndex: 364 entries, 0 to 363\n",
925
           "Data columns (total 2 columns):\n",
           " # Column
926
                             Non-Null Count Dtype
                                                                  \n",
927
                                                                  \n",
           " 0 DATE
928
                                   364 non-null datetime64[ns]\n",
           " 1 Transaction_Count 364 non-null int64
929
                                                                 \n",
930
           "dtypes: datetime64[ns](1), int64(1)\n",
931
           "memory usage: 5.8 KB\n",
           "None\n"
932
933
          1
934
935
936
        "source": [
937
         "# Count the number of transactions per date\n",
938
         "transaction_summary = filtered_data.groupby(\"DATE\")[\"TXN_ID\"].count().reset_index()\n",
939
940
         "# Rename the column for clarity\n",
         "transaction_summary.rename(columns={\"TXN_ID\": \"Transaction_Count\"}, inplace=True)\n",
941
942
943
         "# Display the first few rows\n",
944
         "print(transaction_summary.head())\n",
945
         "print(transaction_summary.info())\n"
946
947
      },
948
        "cell_type": "code",
949
        "execution_count": 18,
950
951
        "metadata": {},
952
        "outputs": [
953
954
          "name": "stdout",
          "output_type": "stream",
955
          "text": [
956
957
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958
959
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960
          "2 2018-07-03\n",
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961
962
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964
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966
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                                       674\n",
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968
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973
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                                     669.0\n".
974
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975
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976
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      assignment using an inplace method.\n",
 985
            "The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting value:
 986
            "\n".
 987
            "For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(
      operation inplace on the original object.\n",
 988
            "\n",
            "\n",
 989
            " transactions_full[\"transaction_count\"].fillna(0, inplace=True)\n"
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 991
 992
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 993
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 995
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          "# Generate a full date sequence\n",
 997
          "full_date_range = pd.DataFrame({\"DATE\": pd.date_range(start=\"2018-07-01\", end=\"2019-06-30\")})\n",
          "\n",
 998
 999
          "# Display the first few rows\n",
1000
          "print(full_date_range.head())\n",
1001
          "\n",
          "# Count the number of transactions per date\n",
1002
1003
          "transactions_by_date = filtered_data.groupby(\"DATE\")[\"TXN_ID\"].count().reset_index()\n",
1004
          "\n".
1005
          "# Rename the column for clarity\n",
          "transactions_by_date.rename(columns={\"TXN_ID\": \"transaction_count\"}, inplace=True)\n",
1006
          "\n",
1007
          "# Display the first few rows\n",
1008
1009
          "print(transactions by date.head())\n",
          "\n",
1010
1011
          "# Merge full date range with actual transaction data\n",
1012
          "transactions_full = full_date_range.merge(transactions_by_date, on=\"DATE\", how=\"left\")\n",
          "\n",
1013
1014
          "# Fill missing transaction counts with 0\n",
1015
          "transactions_full[\"transaction_count\"].fillna(0, inplace=True)\n",
          "\n".
1016
1017
          "# Display the first few rows to verify\n",
1018
          "print(transactions_full.head())\n",
          "\n",
1019
1020
          "# Check for missing dates (where transaction_count = 0)\n",
1021
          "missing_dates = transactions_full[transactions_full[\"transaction_count\"] == 0]\n",
          "print(\"Missing Date(s):\")\n",
1022
          "print(missing_dates)\n"
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1091

1144

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1100
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1101
1102
                        "plt.figure(figsize=(12, 6))\n",
1103
                        "plt.plot(december_data[\"DATE\"], december_data[\"transaction_count\"], marker=\"o\", linestyle=\"-\", color=\"blue\")\n",
1104
                        "\n",
                        "# Labels and title\n",
1105
                        "plt.xlabel(\"Date\")\n",
1106
1107
                        "plt.ylabel(\"Number of Transactions\")\n",
1108
                        "plt.title(\"Transactions in December 2018\")\n",
1109
                        "plt.xticks(rotation=45)\n",
1110
                        "plt.grid()\n",
                        "\n",
1111
1112
                        "# Show the chart\n",
                        "plt.show()\n"
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1114
1115
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1116
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                        "- Transactions were recorded all year round between 2018-07-01 to 2019-06-30 except on 2018-12-25 which recorded no transaction.\n",
1121
                        "- This could be as a result of store being closed because it was a Christmas day \n^{"},
1122
                        "- However there was a major spike in sales during december generally\n",
1123
1124
                        "- Moving forward I recommend that stores be opened on the 25th of Decemeber in order not lose money in peak periods"
1125
1126
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                                                                                           Compny SeaSalt175g
1137
                                           Natural Chip
                                                                                                                                                          175\n"
1138
                             "1
                                                                            CCs Nacho Cheese
                                                                                                                             175g
                                                                                                                                                          175\n"
1139
                             "2
                                           Smiths Crinkle Cut Chips Chicken 170g
                                                                                                                                                          170\n",
                             "3
                                           Smiths Chip Thinly S/Cream&Onion 175g
                                                                                                                                                          175\n".
1140
1141
                             "4 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                                                                                                                          150\n",
                             "count
1142
                                                    246740.000000\n",
                                                           175.583521\n".
1143
                             "mean
                             "std
                                                              59.432118\n"
                             "min
                                                              70.000000\n",
1145
                             "25%
                                                           150.000000\n".
1146
1147
                             "50%
                                                            170.000000\n",
1148
                             "75%
                                                            175.000000\n".
                             "max
                                                            380,000000\n".
1149
1150
                             "Name: PACK_SIZE, dtype: float64\n"
1151
1152
                        },
```

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1158
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1159
            "Try using .loc[row_indexer,col_indexer] = value instead\n",
            "\n",
1160
1161
            "See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
1162
              filtered_data[\"PACK_SIZE\"] = filtered_data[\"PROD_NAME\"].apply(extract_pack_size)\n"
1163
           1
1164
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1165
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1166
1167
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1168
          "import re\n",
          "\n",
1169
1170
          "# Function to extract pack size from product name\n",
1171
          "def extract_pack_size(PROD_NAME):\n",
               match = re.search(r'(\d+)', PROD NAME) # Find the first number in the string\n",
1172
1173
               return int(match.group(0)) if match else None # Convert to integer\n",
          "\n",
1174
1175
          "# Apply function to create a new column\n",
          "filtered_data[\"PACK_SIZE\"] = filtered_data[\"PROD_NAME\"].apply(extract_pack_size)\n",
1176
          "\n",
1177
1178
          "# Display sample results\n",
          "print(filtered_data[[\"PROD_NAME\", \"PACK_SIZE\"]].head())\n",
1179
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1180
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          "filtered_data[\"BRAND\"] = filtered_data[\"PROD_NAME\"].str.split().str[0]\n",
1248
1249
1250
          "# Display the first few rows to verify\n",
          "print(filtered_data[[\"PROD_NAME\", \"BRAND\"]].head())\n"
1251
1252
1253
1254
```

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1256
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1257
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1258
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1259
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1261
1262
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1263
                                                PROD_NAME
                                                              BRAND\n",
            "0
1264
                   Natural Chip
                                       Compny SeaSalt175g
                                                            Natural\n"
            "1
1265
                                 CCs Nacho Cheese 175g
                                                                CCs\n",
            "2
                   Smiths Crinkle Cut Chips Chicken 170g
1266
                                                              Smiths\n",
            "3
1267
                   Smiths Chip Thinly S/Cream&Onion 175g
                                                             Smiths\n"
1268
            "4
                 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                             Kettle\n",
1269
            "6
                 Smiths Crinkle Chips Salt & Vinegar 330g
                                                             Smiths\n"
            "7
1270
                   Grain Waves
                                       Sweet Chilli 210g
                                                              Grain\n"
1271
            "8
                 Doritos Corn Chip Mexican Jalapeno 150g
                                                            Doritos\n",
1272
            "9
                   Grain Waves Sour
                                       Cream&Chives 210G
            "10 Smiths Crinkle Chips Salt & Vinegar 330g
1273
                                                             Smiths\n".
1274
            "11
                   Kettle Sensations Siracha Lime 150g
                                                             Kettle\n",
1275
            "12
                                 Twisties Cheese 270g Twisties\n"
            "13
                         WW Crinkle Cut Chicken 175g
1276
                                                                 WW\n"
1277
            "14
                           Thins Chips Light& Tangy 175g
                                                               Thins\n",
1278
            "15
                                        CCs Original 175g
                                                                CCs\n",
                                        Burger Rings 220g
            "16
1279
                                                             Burger\n"
1280
            "17
                  NCC Sour Cream & Garden Chives 175g
                                                            Natural\n",
1281
            "18
                  Doritos Corn Chip Southern Chicken 150g
                                                            Doritos\n"
            "19
1282
                                 Cheezels Cheese Box 125g Cheezels\n"
1283
            "20
                        Smiths Crinkle
                                            Original 330g
                                                             Smiths\n"
1284
1285
1286
1287
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1288
1289
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1290
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1291
            "A value is trying to be set on a copy of a slice from a DataFrame.\n",
            "Try using .loc[row_indexer,col_indexer] = value instead\n",
1292
            "\n",
1293
            "See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
1294
            " filtered_data[\"BRAND\"] = filtered_data[\"BRAND\"].replace(brand_mapping)\n"
1295
1296
1297
1298
         1,
1299
         "source": [
          "# Dictionary to map variations to standardized brand names\n",
1300
1301
          "brand_mapping = {\n",
1302
              \"RED\": \"Red Rock Deli\",\n",
1303
              \"RRD\": \"Red Rock Deli\",\n",
1304
              \"NCC\": \"Natural\",\n",
1305
              \"KTL\": \"Kettle\",\n"
              \"SMITHS\": \"Smiths\",\n",
1306
               \"CCs\": \"CCs\",\n",
1307
               \"Doritos\": \"Doritos\",\n",
1308
1309
               \Thins\": \Thins\"'n",
          "}\n",
1310
          "\n",
1311
1312
          "# Apply mapping to the BRAND column\n",
1313
          "filtered_data[\"BRAND\"] = filtered_data[\"BRAND\"].replace(brand_mapping)\n",
1314
          "# Display cleaned brand names\n",
1315
          "print(filtered_data[[\"PROD_NAME\", \"BRAND\"]].head(20))\n"
1316
1317
1318
       },
1319
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1320
1321
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1322
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1323
1324
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1325
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1326
           "text": [
1327
1328
                                                PROD NAME
                                                                           BRAND\n",
            "0
1329
                   Natural Chip
                                       Compny SeaSalt175g Natural Chip Company\n",
                                                                            CC's\n",
1330
                                 CCs Nacho Cheese
                                                     175g
```

```
"2
1331
                  Smiths Crinkle Cut Chips Chicken 170g
                                                                       Smiths\n".
1332
           "3
                  Smiths Chip Thinly S/Cream&Onion 175g
                                                                       Smiths\n"
                Kettle Tortilla ChpsHny&Jlpno Chili 150g
1333
                                                                       Kettle\n".
1334
           "6
                Smiths Crinkle Chips Salt & Vinegar 330g
                                                                       Smiths\n"
1335
                                    Sweet Chilli 210g
                                                                  Grain Waves\n",
                 Grain Waves
1336
           "8
                 Doritos Corn Chip Mexican Jalapeno 150g
                                                                      Doritos\n",
           "9
1337
                  Grain Waves Sour Cream&Chives 210G
                                                                  Grain Waves\n",
1338
           "10 Smiths Crinkle Chips Salt & Vinegar 330g
                                                                      Smiths\n"
           "11
                  Kettle Sensations Siracha Lime 150g
1339
                                                                       Kettle\n"
                               Twisties Cheese 270g
           "12
1340
                                                                     Twisties\n",
1341
           "13
                        WW Crinkle Cut Chicken 175g
                                                                          WW∖n",
           "14
                         Thins Chips Light& Tangy 175g
1342
                                                                       Thins\n",
           "15
                                      CCs Original 175g
1343
                                                                        CC's\n"
1344
           "16
                                      Burger Rings 220g
                                                                       Burger\n",
                 NCC Sour Cream & Garden Chives 175g Natural Chip Company\n",
1345
           "17
           "18
1346
                Doritos Corn Chip Southern Chicken 150g
                                                                     Doritos\n"
1347
           "19
                               Cheezels Cheese Box 125g
                                                                    Cheezels\n",
1348
           "20
                       Smiths Crinkle
                                          Original 330g
                                                                       Smiths\n"
1349
1350
         },
1351
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1352
1353
          "output_type": "stream",
1354
           "C:\\Users\\ayivo\\AppData\\Local\\Temp\\ipykernel_19852\\2292733041.py:11: SettingWithCopyWarning: \n",
1355
1356
           "A value is trying to be set on a copy of a slice from a DataFrame.\n",
1357
           "Try using .loc[row_indexer,col_indexer] = value instead\n",
           "\n".
1358
1359
           "See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
1360
           " filtered_data[\"BRAND\"] = filtered_data[\"BRAND\"].replace(brand_mapping)\n"
1361
1362
1363
        ],
         "source": [
1364
1365
         " # Define a mapping for inconsistent brand names\n",
1366
         "brand_mapping = {\n",
1367
             \"NCC\": \"Natural Chip Company\",\n",
1368
              \"Natural\": \"Natural Chip Company\",\n",
1369
             \"RRD\": \"Red Rock Deli\",\n",
             \"Grain\": \"Grain Waves\",\n",
1370
             \"CCs\": \"CC's\", # Ensure proper formatting\n",
1371
         "}\n",
1372
         "\n".
1373
1374
         "# Apply the mapping\n",
         "filtered\_data[\"BRAND\"] = filtered\_data[\"BRAND\"].replace(brand\_mapping)\n",
1375
         "\n",
1376
         "# Display the cleaned brand names\n",
1377
         1378
1379
1380
       },
1381
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1382
1383
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1384
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1385
         "outputs": [
1386
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1387
          "output_type": "stream",
1388
          "text": [
1389
           " LYLTY_CARD_NBR
                                           LIFESTAGE PREMIUM_CUSTOMER\n",
1390
           "0
                               YOUNG SINGLES/COUPLES
1391
                        1000
                                                             Premium\n",
           "1
                               YOUNG SINGLES/COUPLES
1392
                        1002
                                                           Mainstream\n",
           "2
1393
                        1003
                                      YOUNG FAMILIES
                                                               Budget\n",
           "3
                        1004 OLDER SINGLES/COUPLES
                                                           Mainstream\n".
1394
1395
           "4
                        1005 MIDAGE SINGLES/COUPLES
                                                           Mainstream\n".
           "<class 'pandas.core.frame.DataFrame'>\n",
1396
           "RangeIndex: 72637 entries, 0 to 72636\n",
1397
1398
           "Data columns (total 3 columns):\n",
           " # Column
1399
                                  Non-Null Count Dtype \n",
1400
           "---
                                  -----\n",
           " 0 LYLTY_CARD_NBR 72637 non-null int64 \n",
1401
           " 1 LIFESTAGE
1402
                                  72637 non-null object\n"
            " 2 PREMIUM CUSTOMER 72637 non-null object\n",
1403
           "dtypes: int64(1), object(2)\n",
1404
           "memory usage: 1.7+ MB\n",
1405
           "None\n"
1406
```

```
1407
1408
          }
1409
         1,
1410
          "source": [
1411
          "# Permorming exploratory data analysis on the customer data\n",
1412
          "#printing the first 5 rows\n".
1413
          "print(customer_data.head())\n";
          "#printing the datatypes and number of entries\n",
1414
1415
          "print(customer_data.info())"
1416
1417
        }.
1418
         "cell_type": "code"
1419
1420
         "execution count": 28,
1421
          "metadata": {},
          "outputs": [
1422
1423
1424
           "name": "stdout",
           "output_type": "stream",
1425
1426
           "text": [
1427
                    LYLTY_CARD_NBR\n",
            "count
1428
                       7.263700e+04\n"
1429
             "mean
                       1.361859e+05\n",
1430
            "std
                       8.989293e+04\n".
1431
             "min
                       1.000000e+03\n"
             "25%
1432
                       6.620200e+04\n"
             "50%
1433
                       1.340400e+05\n"
             "75%
1434
                       2.033750e+05\n"
            "max
                       2.373711e+06\n",
1435
1436
                     LIFESTAGE PREMIUM CUSTOMER\n",
             "count
1437
                         72637
                                           72637\n"
1438
             "unique
                                               3\n",
                      RETIREES
1439
             "top
                                      Mainstream\n"
            "freq
                                           29245\n"
1440
                         14805
1441
1442
          }
1443
1444
          "source": [
1445
          "# Get summary of numerical columns\n",
          "print(customer_data.describe())\n",
1446
1447
          "\n",
1448
          "# Check categorical columns\n",
          "print(customer_data.describe(include=\"object\"))\n"
1449
1450
1451
1452
         "cell_type": "code",
1453
1454
         "execution_count": 29,
         "metadata": {},
1455
1456
         "outputs": [
1457
1458
1459
```

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```
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1553
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1556
           "0 Natural Chip
1557
                                  Compny SeaSalt175g 2
                                                                     6.0
                                                                           \n".
1558
           "1
                             CCs Nacho Cheese 175g
                                                                           \n",
                                                                     6.3
1559
           "2 Smiths Crinkle Cut Chips Chicken 170g
                                                                     2.9 \n",
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                                                           5
                                                                    15.0
                                                                           \n",
1560
           "4 Kettle Tortilla ChpsHny&Jlpno Chili 150g
                                                            3
                                                                    13.8
                                                                           \n",
1561
1562
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1563
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1564
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1566
1567
           "3
                       True smiths chip thinly screamonion g
                                                                      175
                                                                            \n",
1568
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                                                                      150
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1569
1570
                                                LIFESTAGE PREMIUM_CUSTOMER \n",
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1571
                                                                Premium \n",
1572
           "1
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           "2
1573
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                                                                   Budget \n",
1574
           "3
                            Smiths MIDAGE SINGLES/COUPLES
                                                                   Budget \n",
                                                                   Budget \n",
           "4
1575
                            Kettle MIDAGE SINGLES/COUPLES
1576
           "Original transaction rows: 246740\n",
1577
           "Merged dataset rows: 246740\n"
1578
1579
1580
        "source": [
1581
         "# Merging transaction and customers analysis using the left join to retain all records from the transactions data\n",
1582
1583
         "# Merge using the common key\n",
1584
         "merged_data = filtered_data.merge(customer_data, on=\"LYLTY_CARD_NBR\", how=\"left\") \n",
1585
         "\n",
1586
         "# Check merged dataset\n",
         "print(merged_data.info()) # Check data types and null values\n",
1587
1588
         "print(merged_data.head()) # Preview first few rows\n",
1589
         "\n",
         "# Check if all transaction records are retained\n",
1590
1591
         "print(\"Original transaction rows:\", filtered_data.shape[0])\n",
         "print(\"Merged dataset rows:\", merged_data.shape[0])\n",
1592
1593
         "\n"
1594
        ]
1595
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1600
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1602
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1605
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1629
1630
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          "# Check missing values\n",
          "print(merged_data.isnull().sum())\n"
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          "### Key Metrics to Better Understand Customer Segments and Purchasing Behaviour\n",
          "1. Customer Segmentation & Demographics\n",
1651
1652
          "- Lifestage: Identify whether the customers are young singles, families, retirees, etc.\n",
1653
          "- Premium Customer Status: Understand whether customers are budget-conscious or premium shoppers.\n",
          "- Store Preferences: Identify where different customer segments shop the most.\n",
1654
1655
          "\n",
          "2. Purchasing Behavior\n",
1656
          "- Total Sales per Customer Segment: Compare spending across different customer groups(who spends the most on chip purchase).\n",
1657
1658
          "- How many customers are in each segment?\n",
1659
          "- How many chips are bought per customer by segment?\n",
1660
          "- What's the average chip price by customer segment?\n",
1661
          "- Transaction Frequency: How often does each customer segment purchase chips?\n",
1662
          "- Brand Preferences: Identify the most popular chip brands among different customer groups.\n",
          "- Pack Size Preferences: Find out which pack sizes are most commonly purchased.\n",
1663
1664
          "\n",
          "3. Sales Trends & Seasonality\n",
1665
          "- Monthly/Seasonal Sales Trends: Identify peak purchasing periods (e.g., do sales spike during holidays?).\n",
1666
1667
          "- Weekend vs. Weekday Sales: Do customers buy more on specific days of the week?\n",
          "\n",
1668
          "4. Customer Loyalty\n",
1669
          "- Repeat Purchase Rate: How many customers are returning to buy chips regularly?\n",
1670
          "- Churn Rate: Are there segments that buy once and never return?"
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GN4drFgPYKZHxvBeCwnD+4XHBRBcM0wJuYRgQF3RXbPSRAKGwfF0DpdpQTvsheqE0RI7eF9oH6QH19Y10J9z2womEzqUCyRD0eWEEIIIYQQQuQUB71zBfi1nxoYBIQ+dSe9vP/+++ZUwE0Au/ lpkZxWZ0hmUKJECQticZakBVKLCKzDQkxOjD0MaST+PgjAcTcE66tQjJe0EYrchkEUQCRBIKB2B+kpv/zyS9Q+dJN67LHH7N3gXr1gQm2QMKxDzAmCmII4QmHVRIWVzJiTMDhoGI9fcMYkAkı kG0m6b+BYFavEK1sRg5cmOv8YnUjETHisslDMKNFzvC9+UJ1tBaGZEHpxEpJIgCFDVl1cmLKVwTcSPYIObRBPcO6Vh0oEEOOhAgmKfTDB2R6GxDugudfHB/cE6eGSIBxvC8BV1NuDZIJeF+c\ vJHmOc2OOckov/32m70zvO90+3nmmWfsnfZQPwahEFcJ7+DgwYOjnvmZZ55pz6Rnz57uvvvuM/GFzkxBEMBYd8UVV7hbb73ViuaOGTPGtvkUO7o1UZOF50gBZYQu3y6bd5Br8txx11DziHeT 4P0j1wglCskza1BJEEdBQvxbFCQBiG1BFa2SK+1EogfNCKFgcIwgzpROxDCgfBI4JNEALWMAT23bp1S7ae2hUU7e3Xr5/V5iDoJHCnw4xv35sWCKJZ6BAUJNGxxxqjLyhK4B0rxQPXA3NMlxc cKZMmTYqkYvHMEIEYrxeMqCuDo2LYsGGub9++JmgQnFNc9dlnn7W2zB7aCdN9CUGAZ4HzifofL730UppaXIfJyjnJKL4YMHPGuZkb32IZEAkRoXj0PHdSzoL0Fb4LiFvU7uFdRADhexKcJ75, SamiVhFdhBDIEHto0815vIBy00032fcP5w7umnitmIUQQgghhBAiMzkkKSsqeAqRA1A41/ohs2bNS1YMVex/kFJHW3TStkhlykoQsBCGuJaK2wohhBBCCHHw8lc6YwM5V8QBA46Z66+/3p104 4WUCXzhUSOnKamFFCCGEEEIIITKKxBVxwEANEuqjiP0T0rBIBeJf0qCoJUMKlxBCCCGEEELkdpQWJIQ46FFakBBCCCGEEAKUFiSEEBnksBGHOZe84ZYQ+zVJQ/QbihBCCCFEVqMepUIIIYQQ dvnrXJ3rZtW04PRQghhBBCCCEyxAEtrlB05swzz3StW7d0tu2xxx5zhx9+uNu4caN788033WmnneaKFy/uihQpYt1mnnzyyTQHgpUqVXIPPfRQ5DP7FSpUyK1fvz5qv44d07pevXpFraN-457XXXuuqVatmx9BK+JRTTnHjx49303bsiHtvbBs0aJCrWrWqHXfkkUfaPbz22muRfVq0a0Guu+66qM+Mbfr06VHnYuzcQ5A9e/a4++67zzVo0MAVLVrUcs7q1q1rBWN//vnnyH7cD/cVD87I $b \verb| UuD1PPfWUa9asWeTzd999Z616y5cv7woWLOgqV67sunfv7pYuXRp1XFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBBCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBbCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X+++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTXaPQgghhBbCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTxAPQgghhBbCCLE/c0CLKwSQU6d0dR9//LGb0HFiZPiXFy8X78wZp7X++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTxAPWZp7X++/nyNzkij+HfDvaM2aNe27kB0cfPLJbt0mTxAPQghhBbCCLE/c0CLKwSQU6d0dAPQfy8XPQf$ AZr+VK1e6bt26uX79+rmbbropQ9em80lKrFu3ztWvX9/NmTPH3XvvvW7FihXuo48+srEhCLz33ntxj2V8r776qt3D6tWr3ezZs12XLl3c5s2bU7wmATUCyd69e+Pus3v3bteqVSsbE0LBhx-9+6L744gv38MMPuz/++MOumQjDhg2zIDq4XH311bZt7ty57oILLnCd03d2n3zyiVu2bJl1iIk1PoSj9u3b298IKA0bNnTffvutPduvvvrKnmWNGjXcjTfeGDmGsWbF8+W94j4WLVrkjjjiCH Q6vuqqq9y0adNi7ovIllUUKFDAlSlTxr4rQgghhBBCCLE/c8AXtK1QoYIbO3asGzBggDvrrLPMNXDZZZfZ3/yKj/MDRwBCgofgnMDvmmuusXawjRs3Tvi6XO+BBx5wN998szvhhBNi7nPllV VEwRSauT0+uuv232dc8459pn7QmxIDZwdHPv444/b9WPx4IMPuoULF9q4EH88FStWNAdIog2mcF4QRMfijTfeMOGDefIcd9xxyZwfu3btiohQXB/R59hjj3ULFixwefL8TyOsV6+eOYFgw4YI eWHAZ1StXzr377ruub9++2TYn6QX3jr/20KFD3fPPP2/vB08G3wneV97LZ5991tWuXdt98MEH7ssvv7TxMN+8q3x/eE8QloDj2Ddv3rzmMGJ+7777bnfhhRfad+Hll182VxZiV5s2bSJuoZY 8++ywyVhxDLD/88IN95rnjLmrUqJG9/wiBN9xwg7vtttvMyfXEE0/Y/Q0fPtxcTfHgOJZgRXAhhBBCCCGESC8HtHPF07NnT3fGGWe4Sy+91D3yyCMWKOJ2IODDDRDLwUCQXKxYsbi/6KcGwTI iaW4BolCSpCUftEnOH777bfd33//ndC4aCV1++23m3Pin3/+ibkP94xzJSispHVcicJ9rFq1yp5JSuDmQMDAmULwzTGIJEFhxUOgDln5fIMULlw4U10eaZ2TzILxB8fuxRFcORMmTDAx4/TTT7f3AcEN19Svv/5qrpcgHIfYgtsGF07//v1NvCL9Z/ny5SbIXHzxxSmmu6UFUrBITcNRhYA5ZMgQ+66VKFHC3Em4kni+pPzFY8SIEZaO5BdEWCGEEEIIIYRILweFuAKT: YBUXA39To4SUEgKro48+Otn+BJc4SNgnvRDAEYjya38Y6oXgwKhevXrUeoJTgn6WW265JcX7Wbx4sStVqpTVELn++ustGE4L0FZIDyIwjQX3HB5Xp06dIuMiWE4E7sMf6xc/JwThjB/XA+4bl PG/kVoSYmsfr6AUECaFY4NXD3ZOScZ5d9//zV3CqlSiCceHEGjR4+2d4AFQRJhBfcPc87fjAdHS3D+fE0ejsdFwjvG+0waEutIk0NU5HoZoWTJkpaixtgQTPmX54B7xV+b54v7Kh7sQ996v+I Bgr6T2vvPKKpaPUqVMn2+YkDKk2XqTh3UntWbIfjhWED4Q5XCaecHrZ559/bkJKUAjywtbatWsj+wXvH7EJ4Q+ByENaEPz2229pnqdYcH9BxxLnDV7HXzu16/AdwMUVXIQQQgghhBAivRzwNVeCUEeCJVjHgl+tSTEoW7Zs1L6kSRA4UhMCfPDF/j7txEPaRLyOJ3fddZddh1oSQegORHrNN998E7UeN0Uw1SQ18ufPb4IKC04IalwgmvA3v9ynRI8ePUxc4ZhwpyB+/Q+Py7s/cA0kCu4 11vaEnP2wgsvWN0MBKd9+/ZFHDNsAwr5xktdyurnS70R01GxHhdUds9JmMmTJ7ud03dG3ouUu0iii+x8vGM813BqVThNbfv27a5du3Zu1KhRyc4VdAWFr8v7HVzn08n++++/m0NiHGHhLFYR FnRjISi7//77k22j1gQ1SXAoeMGB4I/OLUFwjxCQ+4A/DLUcKOhJygJpGB5+WaeuCSkX8WqfpMcpgwhB8dfU4F5IW6IYqy8W6uGeKc5K96KcALGHoqR+XkgJatu2rTkSfNFa7pXnFiuA9u2U: EWHPZjjjkmxXMhCLEfx8SqWROGdtw4oxiDv4Zf4tULSg/MJa3JgwJLsLitEEIIIYQQQuRWDirnShi631BbgpQL6kNQbJNgnGAeMYT1vpMM6R84CFiH+4U0BOo04BJp0qRJinVIqO9Adx5aQNI kHolEJaBcHup59+aq6MlLr/0J0FYYBjEWpoq8uYcWKkNcUBwYL7o7ivT9kA0kRIS6EIMMVCccZQLJT6GrNmzYqIHB7Eh3AQzJh8kVCK7hI0B0EoYJzcN6kudD1CFEAYoZ4GjgXEJ6CTDY6cc: oldw/Pnzs+35xiKr5yQ7oegy7y/vG23CcS+RsjR9+nRzzITfh/TCO/3777/bMyPVjXpFvG9K2RFCCCGEEELkdg5q5wpQ4HbGjBlWTBShgja0tkbF0UHaTBBav9J5iICbug+0hUUQIaBPqYMOvArgerian (See Section 1988) and the second of the stHW5Sqp/SunVr685CBxbqyFAE1XUvvvhiQvdPqkd4XAgR1HJhzIgYzZo1s2swV4hB4RQnWuqSnhNcSIfyUMiU9JHgQpAOFIHFHUJtGgQSaocgOiCQUKiU1B0Cee4tCPVH6FyDe4K6IYyPmiw GecX7hvDEvJI+lRbnS1rhGSI4Pvroo/ZdIB0sVqcnIYQQQgghhMhtHJKUG6qDChEHOhq999571nZaiKzir7/+snQpHEdyygghhBBCCHHw8lc6Y4OD3rkicjfly5c3V48QQgghhBBCCJFbOahı QgghRIpIXBFCiP/jsBGHOVcop@chhMhukoYoQ1oIIYQQGUNpQUIIIYQQQgghhBAZQOKKEEIIIYQQQgghRAaQuCKEyDFatGhhbZ2FEEIIIYQQYn/mgBJXevXq5Q455BDXr1+/ZNuuuuoq28Y+ f33338xr9m6dWuXN29e9+mnn8bcvmLFCnfBBRe4o48+2hUsWNAdc8wx7txzz3VvvPGG812wf/jhh8h1w8uSJUvi3u/8+fPd6aef7kqWLOmKFCnijj32WNezZ0+3Z88e2z5v3jw7x7Zt26I-+16pVy/37779R5zr88MPdk08+me6xf/bZZzHHyDlj3VehQv8rbPH777+7/v37u4oVK9p1ypQpY/06aNGiZOerXLmytWYGxjBp0iTXuHFjV6xYMbuHE0880T300ENux44dkW02bNliATzjL1C₁ JL3Y8//pimQJ974NyeoUOHRu4jX758rlKlSu76669327dvz5E5SQT/DviFd7xz585u3bp1Lid49dvX3fDhw3Pk2kIIIYQQQgiRWRxQ4gpUqFDBTZ8+3e3cuTOybteuXe7555+3QDU1zj77bLc bF7UvwfnixYvdgAEDTIAJ89prr7kmTZpY0P3UU0+5r7/+2s2ePdt16tTJ3XHHHdY3OwiiAdcOLg0bNow5zq+++srGipjw4Ycfui+++MKNGzf0xIOwcBKGQPrpp59OcZ9Ex54S9AYP39f69esj2wnuEXK4zrfffutef/11Ezo2b94cdZ6VK1e6rVu3utN0080+X3zxxSaGd0jQwX3wwQcmZtx555029jlz5kSEFe6DuZ0wYYL77rvv7P3g35N00indogIClX9PRo0aZSLPjTfem01zkl6+++ 7me4OAFX7vMxOEweLFi2fZ+YUQQgghhBAiOzjgxJUGDRqYwMIv4h7+RlipX79+qsd7l0C5cuXsXLfddpsF6wgtYWfH1KlTTXTBYTBt2rQoQeeff/5xl112mWvbtq1766233FlnneWqVKnijj, xccNLFAPGD76NGj3QknnOCqVq1qYsvjjz/uChcunOI9Xn311W7IkCFu9+7dMbenZ+wpgUMifF84JgBXzYIFCØygQMjCXdKoUSM3aNAg1759+6jz8By4R+bkxRdfdM8995zNO88IoQQHCULL+ zjvv2HlwNKUHHCvcR/ny5c3dc9FFF5kAkt1zkl5Kly5tjiTmYvDgwSbWITh5Zwvv08Ie34eFCxeac2vEiBHmHOL9qlu3rnv55Zcj5/PHMa98z9gHV9Vvv/1m5+LdQVC68MILo1xFYbcQ55g5 sOzx4BCvcYYiMuJp417p94807/9ddfUYsQQgghhBBCpJcDTlwBUj4QPjy4Snr37p3u8xEkEkwGBRt+0ecaPXr0cDVq1HDVqlWLCjYRP3AZDBw4M055CRLTC8E4bgdcK4lCMIsbAadLLLJ67EI C8QTQFipXr165HN4bIg/CAK4VBA+mK8gBOVXXnmliQG4WzIK5/PpWNk5J5mBF+OC47/11lvdyJEjzbFUp04dE1ZwO+H+welCGhTvPqlpQUiZeuSRR8zRtWHDBte1a1dL08I5hlDHuxXvvUsE; IRrFg/vhHfELgqwQQgghhBBCpJcDUlwh60PXdtIsWKhTwbqMgIDCr+YenBD8Ak8dDH/NJ554IrKdX9IBAcDDL+s+cGZ58803o65x8sknR21nicf555/vunfvbikyOBBI1yGoTcsv8NRnITglvAlfactorian (Control of the Control ofFU045xZwopAAF+emnn2ydP27NmjVR44sFzgVcILgmYsF6RDIC8YywbNkyEw8Q4bJzTjIDBLoxY8aYUys4n8OGDbN6QziiihYt6u69914TKXnfcTFRn4h3fuLEiVHnu/vuu228uFdwOSG+jB8, ycbCMyRtj2dASljw2ildBxcQz8AvCEFCCCGEEEIIkV4OSHHlyCOPtJQWAlTcJfx9xBFHZOicBOFBtwaBJukgBMKA0IGIs3bt2rjnwAFAXRAWUm/CtSxeeOGFyHa/xIMiutzbxo0bLTWI4JgA; PSWoqRG+r8mTJ0fVFyF1B2cKaT+kmJCSFUzDYluzZs0ihWV9Qd20kMi+aYUaNwgiuD5I2WnatKmJW9k5J0FwawSFGpw9KUE6E6IJxX15nq+88orV6/GQXuNBfEJIRGwJXgMnS/h95z3xkOaEl JWEUIIIYQQQoj08v+VgQM0NYhCs/Doo49m+HykR1BvAkgjmTFjhtu7d6/9Ku+hICiiyz333G0de3zhUAqq+oCO9KF4kJqQ0vZYIKpQ2JWFrivHHXecpW7cddddKR6HKMQ4cSD4efkKZ+wpkSr TLL7/c3DW+uxMiQ7DeCPe5evXqVEU2xBieXSxYj2Dmx0aAHcvJg/s1XGMG1wdjYh4RKILCRHbNSRDEkKAY5wWHeCDGcL/UXo1VUBbhxeO7IJHWw/sWhPciSLBGk0+6FYR18Tpv+e1hMYzvWZjU2Dmx0aHcvJg/s1XGMC1VUBDmx0aHcvJg/s1XGMC1AHcvJg/s1XDXfmpIEJj51J30QoFUnAq4CQBXAL/8U9g16Dy4//77zVmAyEIRWDqhpNUZkhmUKFHCUoRwIqQFUotwuoSFmJwYe5iaNWtG7oPgnhSPYH0VamyQvkSR2zAE54gkCBjU/CB155dffonah+LDjz: Z1iDlBEFMQRyiim6iwkhlzEgYHDePxS2odeBAKSflJS6cerouIQnes4DVYMrtWCYJY0HlF+lewAK4QQgghhBBC5EYOWOcKaTPescDfaYUCogTiCCS//vqrtR+mNgldgS655BLbh9oq1I6gS0% 6xN/XXHONOUIQCtgea1wUkQ2LADgvcDCEodYFgg61VgiSaTdNmgbFRhMpGErR0rD4RMpHomPH5RIG4caLHeH7A1wTtFZG5MFpRKoHwf7SpUst1cmLKVwTcQMhw4NognuIdCwKmyIIEZgjgj34 zf/jOSt9//70dg/AWdDXR9YnUHu4XlwiCAm4NOhK98cYbaZ7T7JiT7ITrU+OEIra4QUjPQrwiDQ73S8+ePTPtWtSt4RmQZsV38JZbbonbMUsIIYQQQgghcgsHrLgC6amjQCCP+4N0D5wgdAl +rIGWecYeILogTCB11TcIAgzJB0xD6kcNDFBsEmyJlnnpnsnAT23bp1S7ae0h8U7e3Xr5/V5kA0IXCnwwxFbhMJZlno4hIk0bHHGqMvEkqRXeY0DA4F5rhx48YmiFC/A8EDkapPnz5WxBVwp4 EOP1ghF1ZZYsWWIFWvv27WuCBk4Visc+++yz1prZQ20Qui/Rvplngf0JQsYvvfSSOaESJSvnJLsh5QzxCqFx3bp1Jvr5VuWZCe4v0ntR/JZ0K7r/8J0TQgghhBBCiNzMIUlZUe1TiEyCwrnUI hBBCiIOXv9IZGxywNVfEgQGOGdJRTjrppJweihBCCCGEEEIIERM5V4QQBz1yrgghhBBCCCEyEhsc0DVXhBAiEQ4bcZhzyetHCyFEFElD9LuUEEIIIaJRWpAQQgghhBBCCCFEBpC4IoTIEYYO hBBCiAwjcSUA5Wdowevb+AZ57LHHrP3sxo0b3ZtvvmntjosXL+6KFClixVaffPLJqP3nzZtn7YK3bduW7FyVKlVyDz30UOQz+xUqVMitX78+ar+OHTu6Xr16Ra2jlfC1117rqlWrZsfQSeeUl 1qh1HW13ugTbHnhYtWrjrrrsu6jNjo/VyEMb0PQShbfF9991n7XmLFi1q0Wq0sb7jjjusVbSH++G+4sF5uWZ4GT1yZGSfGTNmuCZNmtg1eAa0oA602/PUU0+5Zs2aRT5/99131ua3fPnyrmDl m9//770TInieLfAb/wvp1//vnJ3tXcQkrPRQghhBBCCCGyCokrAQjKpk6d6j7++GM3ceLEyPrvv//eDRw40I0bN86C2A4d0liAzH4rV6503bp1c/369XM33XRThq49ePDgFPdZt26dq1+/vp: H31kY0MQe0+99+Iey/heffVVu4fVq1e72bNnuy5durjNmzeneE2EGASSvXv3xt1n9+7dr1WrVjYmhIIPP/zQffHFF+7hhx92f/zxh10zEYYNG+Y2bdoUtVx99dW2be7cue6CCy5wnTt3dp98indexinfty for the first of the first ofyZu+eee2K0D+Goffv29jcCSs0GDd23335rz/arr76yZ1mjRg134403Ro5hrFnxfHmvuI9Fixa5I444wp177rn2PLN7TtJDnz597HqIZMzphg0bXI8ePTL13EIIIYQQQghxIKCCtiEqVKjgxo4 sscw1cdtl19je/4uP8wBGAkOAhOC9QoIC75ppr7Ff9xo0bJ3xdrvfAAw+4m2++2Z1wwgkx97nyyitdvnz5-TCjAHeKpUqWKCQIpNX56/fXX7b700ecc+8x9ITakBs40jn388cft+rF48MEH3cKFC21ciD+eihUrmgMk0YZUOC/K1CkTc9sbb7xhwgfz5Dnuu0OS0T927doVEaG4PqLPscce6xYsW0Dy5Pmfi 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iLN888/7956690TDseNGxf3eMQiqoAHFyGEEEIIIYTINnGFAOqyyy6zX6ZJbfCB6NVXX+1GjhyZ7oGI7IFgGOGEX/hjwXrcJr///nuGruPrhyCQBKHGB2llfuEdCvLFF1/YegJ+n66Ulrbf/ uYULF5qbJQwiAk4O9gdcLKQlZQXh8bL069fPtuEOQaQYPHiwuT1wZgwfPjxLnGG8DxMmTHAnnniipUX5tCRcMyeffLK5UP744w8TqF566SV36qmnuqpVq5qLpVmzZrbew3Hjx483R0nz5s3Ni T6FTRJXWrVubcJca/ji/4DoBnDP//P0P0+ecc+wzqTfUMwmm/wRBTEFcQcjAqYGTJysIj5d12LBhUalbFPp97rnnrD40wgZCVDwnEPsFhRrmOR7UsGEfBFLGcdRRR9nxHpxCderUiRKCcNCQU G4WUls4b7hQK84VutfghmjXrp@rVaqUywrijTcIThLGwIJTA6GJfxGHwrRv397qoHhwv6R03uXLl9u9Uyw3nB7G5+B3e/v27dZpiQ5Q/BskKJzkz58/ahvniLW0+Y+FfxZB4Q83TCyC50300I iwe4uHtwBYZeCyH0gFhCck/ZBAdMg3ilxwQUXZPhZUv+CwqI4mjLCHXfc4caMGWPdbBKFttKvvfaa1QAJOkRWrFhhqU/U5YhVaJYORzizsiolKD34Vs18z+IJJog1fgkLJmERg31weqS0n4dl 9m4QW9TZs2RdYFi9sKIYQQQgghxAHjXKE2AwUjfaqGD8Ipfkn6gsj9UAiUehreCRFsxYzj4Z577kkmqIWDXBwPpF74ji4IMxQJpRUzRUtx0D399NPJXCoE6LRsDgs+YeeBh3eKFJB7773Xxp(axhcMsxFoq4V0md83RLgmnXr1o25L8VjmbMg7M+cMtdDhgyxArvUKsHlQgo0qUxpqT+T2ZAORHoUohNtrBFbeCfmzp1rzwZ3UWaA0IMjDscS7yTvCuKaEEIIIYQQQhxw4gpBLqkTX3311QWI` Otb/p2kEAKHI/xx57rFu6dKkF8AgPpM3gQOjYsaOtK1myZNT+dGBhCQsQPvDt3bu3/UsNHsQZCp1+8sknMbvsUOMjDLVNUmoxTOehXr16mbCQSOFRxAhSn2K5cDp37mziBcVawyBm+LbIiUAl UAVhDQVhCeK/lKrhLQl357Yf2YucgIK1yLE3Xjjjdaum/nhmVGkNjPhmZGS1bBhQ3tXR08ebe29hRBCCCGEECI3c0hSOiqbUluFX5cpbEs9BoJoAt/atWtnzSiFECILoRUzXYMobks6mxBCCC IIYQQIiOxQcJpQR7qIbCEO31EW6QKIYQQQgghhBBCHOgkLK7QjrVnz57WajdseqE2BF1FhBBCCCGEEEIIIQ4WEhZXaE9L9xA6rdDZRO2XhRAHCoeNOMy5Qjk9CiGEEImSNERZ7kIIIfYzcWXcVarance and the contraction of the coaEQkhhBBCCCGEEELsR+RJ9IAzzjjDugQJIURGocX0Qw891NPDEEIIIYQQQojsFVcmT57spkyZ4u666y5zsLz++utRi8idUB/nzDPPdK1bt0627bHHHnOHH36427hxo3vzzTfdaaed5ooXL+6l 9v3jxLB9u2bVuqwTL7FSpUyK1fvz5qv44d07pevXpFrfvll1/ctddea64ojiHt7JRTTnHjx49303bsiHtvQ4cOteuEl/feey+yz7Rp01zevHndVVddlex4fz8lSpRwu3btitr26aefRs4X7/5Tmg8/vnr16qU63ho1akT2+f77792FF17oypYta3NRvnx516FDB7d69WqXEXiW/np58uSx8/bu3duKU+cEz08VV1yRI9cWQgghhBBCiBxLC/roo4/cokWL3KxZs5JtU0Hb3Av-PZurUqa527dpu4sSJrm/fvpEgfuDAgSZgzJgxw1133XXulltusc8FChRwr732muvXr5/78ssv3ZgxY9J97cGDB7unnnoqxXQzhBREnnvvvdfGWbBgQffFF1+4SZMmuXLlyrn27dvHPb5WrVpI P7v3+++83wSIMghJz0L1796jjKlas6H788UeXmcQab758///ruHfvXteqVStXvXp19+qrr7qjjz7ahC++c/EEnESgndg333xjnb5woSGu/Pzzz+6dd95Jti/fZy/EZAVHHnlklpxXCCGEEEI xcWZ6d03e66d0n2/rMJtZ4jzjiCNu2atUqt3btWnMUNWnSxB1zzDEmPN1999320aMglnA9XDFt2rRx11xzjQk93C/0FgQuXGi8AwhcCEu7d++29waRq2jRoq5x48bm2PH443A+IQrheurSpY: DOJawf90BJ10P/zwg43ts88+i2xHTGKdv5Z3CSEE1a9f3xUuXNidfvrp5rxBf0K9QTzC9Z0S20kIIYQQQgghclRc2bx5s7v++ustZUPsfyAUUDeHrk+PPPKICR640V5++WvzTBBAh8H1UqxYI Q8IA+eee66JG/HeqTlz5ljKDoF7LDLSlQrHTtu2bd1hhx1mwiBulFhcfPHFbsGCBRGXCmlvBP8NGjRw2QluDpwiPJPsECwRKBBH9+3bZ58RJUaNGmUpgAg9pUuXNoEM1xpi08qVK93555/vz ftn1mz55tQkinTp3c22+/bcszzzwTedcyCq1VvL+IZhs2bDBBDpHm+eefNzGO92ncuHFxj0cs+uuvv6IWIYQQQgghhMg2ceW8885zH3zwQbovKHIe0mwQVXCp8DfB/LfffmviAykoYXCA4CJl LB8RAEJweiDgupSilB+pDf16VRo0a2HtEAVwWiCnTr1s0tXLjQ3CxhEBFwcvgaM7hYEKGygvB4WUi/AtwhiBSkUuH2wJkxfPhwS53KbBBHJkyY4E488URLiwJENlwzJ598sj2TP/74wwSql1! 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1773
1774
          "# Sort values for better visualization\n",
1775
          "sales by segment = sales by segment.sort values(\"TOT SALES\", ascending=False)\n",
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1776
          "# Bar chart of total sales contribution\n",
1777
1778
          "plt.figure(figsize=(10, 5))\n",
1779
          "plt.barh(sales_by_segment[\"LIFESTAGE\"] + \" - \" + sales_by_segment[\"PREMIUM_CUSTOMER\"], sales_by_segment[\"TOT_SALES\"], color=\"green'
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          "plt.ylabel(\"Customer Segment\")\n",
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1832
          "# Rename column for clarity\n",
1833
          "customers_by_segment.rename(columns={\"LYLTY_CARD_NBR\": \"NUM_CUSTOMERS\"}, inplace=True)\n",
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1835
          "# Sort by highest number of customers\n",
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1838
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0 \times 649 \\ \text{tv} \times 70 \\ \text{w} \times 88 \\ \text{s} + d + 7 \\ \text{c} \times 2 \\ \text{c} \times 10 \\ \text{fu} + 7 \\ \text{c} \times 2 \\ \text{m} \times 2 \\ \text{fu} + 7 \\ \text{fu} \times 10 \\ \text{fu} + 7 \\ \text{fu} \times 10 \\ \text{
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1860
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1861
1862
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          "plt.barh(customers_by_segment[\"LIFESTAGE\"] + \" - \" + customers_by_segment[\"PREMIUM_CUSTOMER\"], \n",
1863
1864
                    customers by segment[\"NUM CUSTOMERS\"], \n",
1865
                    color=\"purple\")\n",
          "\n",
1866
1867
          "plt.xlabel(\"Number of Customers\")\n",
1868
          "plt.ylabel(\"Customer Segment\")\n",
          "plt.title(\"Number of Customers by Lifestage & Spending Category\")\n",
1869
1870
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      segments but this is not a major driver for the Budget - Older families segment'
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                         OLDER FAMILIES
                                               Mainstream 96413.55
                                                                                2788
                                                                                        \n",
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                                                                                        \n",
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                                                                                4611
1891
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"13
1892
                        OLDER FAMILIES
                                               Premium 75242.60
                                                                             2231
                                                                                   \n",
1893
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                        YOUNG FAMILIES
                                                Budget 129717.95
                                                                             3953
                                                                                    \n".
                                                         78571.70
1894
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                                                Premium
                                                                             2398
                                                                                    \n",
1895
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                                                         86338.25
                                                                            2685
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                                                                                    \n",
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                                                                             4385
                                                                                    \n",
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                                                                            3812
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                                                                             575
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1924
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1926
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         "\n",
1940
1941
          "# Calculate sales per customer\n",
1942
          "segment_analysis[\"SALES_PER_CUSTOMER\"] = segment_analysis[\"TOT_SALES\"] / segment_analysis[\"NUM_CUSTOMERS\"]\n",
         "\n",
1943
1944
         "# Sort by highest sales per customer\n",
         "segment_analysis = segment_analysis.sort_values(\"SALES_PER_CUSTOMER\", ascending=False)\n",
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1946
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                                  4.891566
                                            \n"
               "3
  2000
                                  4.821527
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               "5
  2001
                                  4.815652 \n"
               "19
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               "18
                                  4.250069 \n"
  2004
  2005
  2006
  2007
  2008
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  2009
             "# To determine whether higher sales are driven by more units of chips purchased per customer, we need to calculate the average number of un:
        LIFESTAGE and PREMIUM CUSTOMER segment.\n",
  2010
             "# Aggregate total quantity and count unique customers per segment\n"
  2011
             "units_per_customer = merged_data.groupby([\"LIFESTAGE\", \"PREMIUM_CUSTOMER\"]).agg(\n",
  2012
                  total_units=(\"PROD_QTY\", \"sum\"),\n",
  2013
                 num_customers=(\"LYLTY_CARD_NBR\", \"nunique\")\n",
             ").reset_index()\n",
  2014
  2015
             "\n",
  2016
             "# Calculate the average units per customer\n",
             "units_per_customer[\"AVG_UNITS_PER_CUSTOMER\"] = units_per_customer[\"total_units\"] / units_per_customer[\"num_customers\"]\n",
  2017
  2018
             "\n",
  2019
             "# Sort by highest average units per customer\n",
             "units_per_customer = units_per_customer.sort_values(\"AVG_UNITS_PER_CUSTOMER\", ascending=False)\n",
  2020
  2021
             "\n",
             "# Display results\n",
  2022
  2023
             "print(units_per_customer)\n"
  2024
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  2025
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  2027
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24T4Lqi+9VXyheN830uOAufvYRERERERERFIzVdyJ1bJlSxt+sAiFH62UVK3dc8899udSpUrZkIUgx4sqNcI8wrlQaEdkrrTHH388a042wjHCKOYs4ziJhbnzFixYYOdc81a2sWLtoUOH7Dxc w14fwjiCQLfFFHby2bEPwWhcQlHaT/m8qGDzHoONRS4SCy3bYMVbx7tQhYiIiIiIiEhao4o7sYoWLWqeffZZu4ps1qxZ7UINBHkEXwRtPO4qugiJOnfubB8j6CpfvrxtNWQe0lY9ZW60mFoU} jLrxIsSCDF22lbqVWP1Zr9S8EwvmeOnXKFC5c2M4NRyvvzp077fjdz/369TMpgUUoaNMlrP3jjz/s9SFkY8GJxMRnRpsyQS3z7xEmN2jQIFGPISIiIiIiInKhSBflnVBKRCQNOnr0qJ2b8Zar 0/j30yJEjgbUEQtEcdyIiIiIIIIIIIIqmQgjsREREREREZFUSHPciYj8z7w3BsZYoiwiIiIIIIKSnFRxJyIIIIIIIIIIkgopuBMREREREREUmFFNyJiIIIIIIIIIkQprjTkTkf5p1Hm0j EvefDKlhyAJpIo7ERERERERGRVEjBnYiIiIIIIIIIICCqk4E5ERERERERCQVUnAnksZcccUVZty4cSk9DBERERERERGJhYK7VCoqKsrUq1fPNGzYMNpzkyZNMrly5TK///67WbhwoalTp4 49u7n++uvNzJkzg/ZfunSpSZcunT18+HCsIQ77Zc2a1ezatStovxYtWpgOHToEPbZnzx7Tp08fc+WVV9rXXHbZZaZWrVpm8uTJ5sSJE2HPbciQIfY4/m3JkiWBfWbPnm0yZMhgevbsGe317n; BUrVox1vKVLlw7ss2PHDtOmTRtTqFAhey0KFy5smjdvbjZv3mwSgs+SY5UpUybac++++659js8wElyjr127msSwc+d004YNGzYkyvuJiIiIiIIIIyP9RcJdKEYbMmDHDfPvtt2bq1KlBAdGAA(++aObPn2/DIcIy9tu4caNp3bq16d69u+nfv3+Cjj148OAY99m+fbupVkmS+fTTT83IkSPN+vXrzTfffGPHRpjoDeFCKVeunPnrr7+Cttq1aweenz59un0vAjx/OOcQVnINvHhd0aJFTWIL-Nd6vv/7aPnfmzBlTv359c+TIETNv3jyzZcsW8/bbb5vy5cuHDQcjkSNHDrN37157fRPjXPPly2dD3uT077//JuvxRERERERERP4LFNylYkWKFDHjx4+3IRyBHVV4nTp1Mg0aNDB169Y1Dz/8: sueeeM2PHjrVhXnz06tXLvPHGG+bHH38Mu0+PHj1MxowZzdq1a02rVq1sRViJEiVskPjRRx+Zpk2bxngMXlugQIGgLXPmzPY5znXlypXmscceM1d-reference and the contraction of the contraction oddZUNw0Jp3769efXVVwM/nzx50syZM8c+nthCjffSSy+1z/30009m27ZtthKyevXqplixYjZMffrpp+3PiXFsqvm850q1JZWDP07F0PgMqH686KKLbAWmP0QNVWX5yiuvmNtvv90GeqVKlTI 3b2sAvW7Zs9nlCZRQvXtz+lxCX9+G+BNWZVGmOGDHCViFeffXV9vHdu3fb+4WK0Tx58tixUrXnrQvkBOXaXnLJJbaa9LvvvgsaP8chzL7tttvseLn3CDW3bt1qj0/QWbNmTXstRERERERERC! kCu5SOUKoW265xdx///1m4sSJNkwjtJg7d66t9ApVWdetWzcb2lCtFh+EToQiBGehHDhwwFba0cZKSBKKt1U1UoRCTZo0scHNvffeayvLQmnXrp1Zvny5+e233+zP7733ng2lKleubJITgVb690ntZ3Lu3Lkk0Oaf/zvvvBNoQaaFtlGjRjag8zp27Ji59dZbzeeff26rINmHENVdo3CGDh1qAzWqNnk9Od3Bgwftc08++aT5+eefzaJFi8ymTZtsK7OLL-v5NUPTLL7/YYKtgwYLR9qdyjeo39omvZ555xixevNgGLH5UNhGMuCoqhzCHIIbt0UcfjfH9f/jhh8C+bFWrVrWPnz9/3oZSBHag9ZcQhyo8v/z585vGjRsH5vSjIo2AKyn4x8tGSzIuv/xyMi

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JJVY9sqTKT0EEUnjVHEnIiIIIIIIIIIIIKCim4ExERERERERERERSYUU3ImIIIIIIIIIKRCCu5EJEUMGTLEVKxYMaWHISIIIIIIIpJqKbiLwe7du839999vChUqZDJnzmyKFStm+vTpYw4c0BC0) n3Dvk+6d0kCW44c0UypUqVMhw4dzLp164L2W7p0adC+3m3Pnj2BsMM91iFDB10kSBHTtWtXc/DgwRjP5cSJE2bgwIGmzMmSJmvWrCZfvnymTp06ZsGCBWHPg585zpw5c4Lea9y4ceaKK64Iei RUqFDBPPHEE+bPP/8M7Md5t2jRIuw4ed9Q5z9q1KjAPvPnzzfVq1e3x8iZM6cpV65cyOv/2muvmRtuuCHw89atW03Hjh1N4cKFTZYsWUzx4sXNPffcY9auXRv0uoULF9prw3tnz57dXH/99Wl XX6TINYmUuwfcdtll15m77rrL7Nq1y6RGMX0uIiIiIiIiIhcaBXdhbN++3Vx33XXm119/NbNnz7ahz5QpU8znn39uatSoEWtQ5jdjxgzz119/mZ9++sm89NJL5tixY6ZatWpm1-g/Qj7CtzNnzoTd5/Tp06Z+/fpm5MiRNoT66quvzA8//GAmTJhg9u/fb48ZiWHDhkU7/wcffNA+x/W/++67TcuWLc3q1att+DlixIiQ4yOUbNasmf034VyVKlXML7/8YqZOnWp+/vlnG3aVLlixAvC3q1att+DlixAvC3q1att+DK1bt7bXr3///ia+30e/YsUKc+m1l5rbbrvN3mPJfU3io@uXLvZ4BLBcUwLte++9N1HeW@RERERETCyxjDc2laz549bZXdp59+arJly2YfK1q@qK1UqZKtWhs@aJCZPHlynN&vV65cpkCBAc Xr16maZNm5rcuXMH9iWkY/9wMmbMGHivyy+/3FZAEQzF5IMPPjDjx483t956a2AMBFmxoSKN17788sumR48eIfd54YUXzNdff23DMa6Pw/Wici0qKspEgooxd35+H374oQ3VHnnkkcBjV111\ Uum4fPlykz79/+XVtGpSRQkCKUI8KtV4ncNj3Au9e/e215rANVLu82fjvuFz++yzz0y3bt2S7ZrEF1WH7tgFCxa096x33FQjcs28VW7vv/++uf3224M+eyoEuVeo/mzVqpWt+vQ6e/aseeihl Nq2bWvefvvtiAMpv379+pl//vnHBjjxRVjBWAmWYsK4P/74Y3u8SFx88cU2pKTi6/jx4yH3oSKRijtvaOdF62Ji4TyoWvzxxx9j3I8qNMIxKuo2bNhgX0MA5w3tHBeSzp0711aphaqsI6i66I 8b77zzTsThJa+hzZtAlICXAHDSpElB+xDIvfnmmzaEpjLx6NGjgcD0eeaZZ2ywR/Ur58zvENV/y5Yts23j7733XlDVKmF1uCpR3t+7iYiIiIIIIKQ2Cu5CoD2WUK5MmTIhn+fxQ4c0mX379i MAMU8bAcajjz4a47GoUFq5cqXJmzevnbONwINwJC4IMGmZff7550M+T/vp1VdfHfQY1VZu/DVr1jSR4Fy8589GpRxoD2X85cuXt1WDtLG++uqrNogJ1ybL5+m93uFwHswRR6jkRzBaokQJu09 h8zZo1NtAhxHDznYVTu3Zt06calWi0FRL23XjjjWb480Gxjp0FHKi4GzNmjJ2zLq5hD2NkcQ/CqkjQ8uk9fzbmGwTh0UcffWTnHCQAI1Cikq5q1aqB43BdaR91wV1Sf45xQcsxY6Xl1aqw6d vv//etkRfeeWVttU7kurNTZs2RavSY65Ih3bYv//+247ZIYjztnNzfpwP1Z3eAJMKvG3btplIEBByTLfRJi0iIIIIIiKS2miOuxAIJgjTCBuo/vHjcebQ8s/RFSneB1TNefFzTHPcUf3FGN2{ LlCmTDevYCPyoeiKQ49+xtdpS1URwx2v8K8oydxxVWF6uas1VQEWCxRvc+YXDPINszINGKy9zndG+zKqxLNDAfGmu0o/nwKIc4dp53X6EOCzCwEr-CXrS1Eg650dRoIQb7+z8r5nrzV3oxt1u9evXs4/G5bxJ6TfxeeeUVc/LkycB9ERPG717Nfwkd+Xx5b45F+7E/HE2shTG8WNAFhJS0QfvD5Uiwf6SvEREREREUluqrgLgXZAqnqoGnPhhs0I YSgyopQjcApErQqEnCxkENsCGdoL2RhBX9rL9VkzN03fv16kxIIE1lAwc3BR5ssYSYVW24BCs517NixdnEDP7eoAquyEmKxnx9zqvH+nKsLK7kmrODqRVUjYZ4LCx3aNgm9Ehr2xvea+BF8MI w3Oieo777Go0PO317NKr9eqVauCwsHLLrvMVpE6586dM999913gZz5DwjZWU3Zjd5trdXUBNK8VERERERERUdCp4i4M5teiYos2VKrM3FxytCwSeowYMSJof+a784cVVCURRrhwiNCPebqYJ4 OaTtkvm/GHcodevWtaET7ZW8188//2wef/xxW0HmqsdiQxhGuyNjd+cF5sujCuqWW24xTz311K3ooyKR81y0aFEg6HEItvzXijG58IUQiGv1RQjF0FnggHZJVsclcOK6TpgwwVZ4EbaCVXCp: JyrjkLh3C/EcDecMMN9roxVyPXgRVkOX/2X7hwob0ezANJO62IiIiIiIjIhUgVd2FQUcXq1wQLrVq1si2IXbt2tUHXN998E60F9K233rJtmN7t5ZdfDjxPuyJBHoHEAw88YMMEWjrbtGkT7d X3vtNRu2UP1ESMJjrPYZCVb+9IeKhDjMnUdoRUBGoMIx+vbta0Ma/8qg55cujXataPV1Bg8eHO38BwwYYJ9jQQeq2u677z57LZmrjVCJ8I3rRjsrc6Fxbl7MncbnSSjUpUsXOz7mwCM8ovLR GL1YsJSzivJknjmCKAJUwMNJqzKS8JgnFfeyOyf3PPIfMu+jem9+FN954wz5GgMnKu4SJXlSoPvnkk3bMzFu3a9cu+3vgxXUkXOY8CKP5HeFz5P5yCA15HwI+PsNGjRrZ0Ni1mxOqc90ee+w; IiklLSRaWGmftFEgkr3y5ZsiTagh5y4aGqjnCO4Dwui6gkxNGjR227bs12j5uMmf8vKBQRERGRtG3ZK0+m9BBE5D/KfQ+lkyymTki1ysp/SuHChe2KoXLhoQqPKKEqCGkpp+17x44dIatSRUI GYX45CYNQUQZ6k6k5EREREREQkLVKrrIikeXEtURYRERERERFJzu+hWpxCREREREREQkFVJwJyIiIIIIIIIikgopuBMREREREREREUmFtDiFiMj/10s/2mTMnDWlhyEiIiIiKWzlxCdTegi RERERFINBXciIiIIIIIIIKpkII7ERERERERERGRVEjBnYikikVL15p06dKZw4cPp/RQRERERERERKINBXc7d6929x///2mUKFCJnPmzKZYsWKmT58+5sCBA0H71a1b1/Tt2zfs+xA2uC1Hz mbdunUhg41Q2549e+w+Q4YMCTyWIUMGU6RIEd01a1dz80DBGM/lxIkTZuDAgaZkyZIma9asJl++fKZOnTpmwYIFYc+DnznOnDlzgt5r3Lhx5oorrgh67N9//zXPPfecqVy5sj3HSy65xFSoU 2rUqMA+8+fPN9WrV7fHyJkzpylXrlzI6//aa6+ZG264IfDz1q1bTceOHU3hwoVNlixZTPHixc0999xj1q5dG/S6hQsX2mvDe2fPnt1cf/31ZubMmXE0kTgHrpHjPQ/GXKtWLfPFF1+kyDWJlI NmmRSQs2aNc1ff/1lz1FERERERERE0nBwt337dnPdddeZX3/91cyePduGPl0mTDGff/65qVGjRqxBmd+MGTNs6PDTTz+Z1156yRw7dsxUq1bNzJo-1 K 9 q + W 7 Z s s f t 6 t / z 5 8 w e 0 J 5 T h s d 9 t + 8 2 t - 7 t F 18 Q D D z w Q 4 / G 7 d + 9 u 5 s 2 b Z 15 8 8 U W z e f N m + 5 o 7 7 7 w z W g j p R 1 h D + H b m z J m w + 5 w + f d r U r 1 / f j B w 5 0 o Z Q X 3 3 1 1 f n h h x / M h A K T z P 7 9 t + 0 x I z F s 2 L B (v T 1 + 0 t 1jBgRcnyEks2aNbP/JpyrUqWK+eWXX8zUqVPNzz//bM0u0qVLm4cffjjwGsbavHlzG659++23ZuPGjaZ169b2+vXv39/E1/v8V6xYYS699FJz22232Xssua9JfHTp0sUej2vWq1Ur07NnT/s7I VEREREREQkuowmjSCcICj49NNPTbZs2exjRYsWNZUqVbJVa4MGDTKTJ0+O8/vlypXLhg6ugqpBgwamffv2plevXqZp06Ymd+7cgX0J6dg/nIwZMwbe6/LLLzd33XWXDYZi8sEHH5jx48ebW2+9NTAGgqzYUJHGa19++WXTo0ePkPu88MIL5uuvv7bhGNfH4XpRuRYVFWUiQcWYOz+/Dz/80IZqjzzySOCxq666K1rF2q1Tp+xnR5j18QkUqXRcvny55Z/+//LnihUr2ipKV2FJiE 3+bNw3fG6fffaZ6datW7Jdk/ii6tAdm4rPt956y94T3BtU5F1zzTX2nnzjjTdM+fL1zZdffm1+/PFH0x6uNxWY3O/cJ4SW4HXsS9Uo1ZFc36efftq0adPG/k7MnTvXXHbZZTZIbdy4caDK8aa P/++2bDhg2BsVLpyLZz5077M587VZFVq1a19z8h80MPPWQef/xxW4E6ffp0e37Dhw+31ZgiIiIIIIIIF7I0UXFHNd0nn3xigyoX2jkEGG3btjVvv/12xIGUX79+/cw///xjA5z4IqBgrAQfMWHcH3/8sT1eJC6++GIbUlLxdfz48ZD7UH1FxZ03tPNKzAopzoOqRYKhmFCFRjhGRR3BDq8hgPOGdo4LSQmLqFILVV1HwHbRRReFrTSLhLui LEwfu/YXfBGNSFVqQR1N998s70fCHOp7vz7779ttZ4XryPIo0qQ6kGqRg1GaYn97rvvbNjXr1072+adELQ1065NJejzzz9vnnrqKVvxSFhOVSXV1Hy+v//+e9j3IPA7evRo0CYiIiIiIiJywK LjWiPZZQrkyZMiGf53Gqfvbt25eg4xAqwVUHOczBRkjkNlpjvWhD5XECF0ZpI7R59NFHYzzWtGnTzMqVK03evHntnG2EhgQtcUGAScssoUcotJ9effXVQY/dfvvtgfETxESCc/GePxuVWyDg vrq6++ao0VcG2yfJ7e6x0058H8aQULFoz2HMFUiRI17D4JQQhF6zGVZlQjJuc1Sahz587Zqjrah72/u1QyPvvss/YeYJs4caIN7aha5Jrzb8ZDJZ73+rk5EHk91W/cYwR5t0by20DBg20rN8c LiDx58ti2bcbGnJX818+Bqjt3bD5fqkbDeeaZZ+y94TbmlhQRERERERG54IM72ttCVRbRyuiCh9QqoRV1cX1/f0Ua14UqMbdRKedF8MDja9assYF0w4YNA/OdhVO7dm07pxqVaMxtR9h3440: a MsXPWxQULGDBGgpJIK6ZosfSePxvzDYK2y48++sj00UjoQ4BFJR2tk044XFfaR11wl9SfY1zQVspYaXl97733bIvmtddem2zXxI/203DBcKjP0gXFhGqEvt45Ff0t199//70N6bwhowtNt2:j0z1tpyft6j+00HdNxCPe0HDkS2GirFhEREREBlg57jzVskwqb1bFdVV7tA+RytjanTllVfaMG3Tpk22csyPx2mzY2XWh0B9QNWcFz/HNMcd1UGMEaws2qRJEzN06NBYQ7hMmTLZsI6NwI{ aqWWFDDy1WtUe0UKaqu3PmFwzyDbJ07d7atvMzpRvsy85TRenn27NlApR/PgUU5wrXzuv0IZWirZCVhL8JnQifmWHMtxGB//2dFhal/5VPmd6tXr559PD73TUKvid8rr7xiTp48GbgvYkJr0(5m@cPXp@tPfyVjP6j8vvnPcxF2ifP38+5LgYhz+UDbUgR2zHcY+F044Lr91EREREREF/hMVd@z6T@jCF2La6vjZbVToEADRCpcaUX3DnG1UGrlwwyGAfPPNN+@qngmdu41J9AmACHQSgior(aGKIR2QRZW8Lf2Uk3GPH3r1683KYEgkQUG3Bx8tMkSZ1JJBe45znXs2LEhwxnXys2qrAQ670fH3G28P+fqwkquCSu4e1HVSJjnwkLvPHQEbwkNe+N7TfwIzRkPW7FixWJ8L8JG9uM1oeYI9K1 55F60QERERERERSWviXHG3Y8cO+4WaecGogPIGF1R3sXKqC1ZSI+bpomKLN1RCRjeXHC2LBBgjRowI2p/57vyhAdVFrt2PcIiQgXnHm0dr6tSpdkXMWbNmRavYomXPH6YRJoarjKpRo4Zt02I 7UQXJHF9UkLnqsdgQhrGiKmN35wVaJ2nVvOWWW+zE/1T0UZHIeS5atCja50yw5b9WjMnNG8YCGt4KTRBCMU5WEqX9k9VxCZy4rsxfRqUVYStY8ZRKQoeAlVV3CUgZG9VjtG5SGUZLLavPLlu; 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2091
2092
         "import seaborn as sns\n",
2093
         "\n",
2094
         "# Calculate the average price per unit\n",
2095
         "avg_price_per_unit = (\n",
2096
              merged_data.groupby([\"LIFESTAGE\", \"PREMIUM_CUSTOMER\"])[\"TOT_SALES\"]\n",
2097
              .sum()\n",
             / merged_data.groupby([\"LIFESTAGE\", \"PREMIUM_CUSTOMER\"])[\"PROD_QTY\"]\n",
2098
2099
              .sum()\n",
2100
         ").reset_index()\n",
2101
         "\n",
         2102
         "\n",
2103
2104
         "# Sort by average price per unit in descending order\n",
2105
         "avg_price_per_unit = avg_price_per_unit.sort_values(by=\"AVG_PRICE_PER_UNIT\", ascending=False)\n",
2106
         "\n",
2107
         "# Create a new column for labels\n",
         "avg_price_per_unit[\"SEGMENT\"] = avg_price_per_unit[\"LIFESTAGE\"] + \" - \" + avg_price_per_unit[\"PREMIUM_CUSTOMER\"]\n",
2108
```

```
2109
          "\n"
2110
          "# Plot the sorted results\n".
2111
          "plt.figure(figsize=(12, 6))\n",
2112
          "sns.barplot(\n"
2113
              data=avg price per unit,\n",
2114
               x=\"AVG_PRICE_PER_UNIT\",\n",
2115
               y=\"SEGMENT\",\n",
2116
               hue=\"SEGMENT\", # Assigning hue to match the y variable\n",
2117
               dodge=False,
                                # Ensures single bars per category\n",
2118
               legend=False,
                               # Avoids duplicate legend\n",
2119
              palette=\"coolwarm\",\n",
          ")\n",
2120
2121
          "\n",
2122
          "plt.xlabel(\"Average Price Per Unit ($)\")\n",
2123
          "plt.ylabel(\"Customer Segment\")\n",
2124
          "plt.title(\"Average Price Per Unit by Lifestage and Premium Customer Status \")\n",
2125
          "plt.show()\n"
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      be due to premium shoppers being more likely to buy healthy snacks and when they buy chips, this is mainly for entertainment purposes rather than
      also supported by there being fewer premium midage and young singles and couples buying chips compared to their mainstream counterparts"
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2146
            "There is a significant difference in price per unit between Mainstream and Premium customers.\n",
2147
            "There is NO significant difference in price per unit between Midage Budget customers and Young Singles/Couples.\n"
2148
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              return f(*args, **kwargs)\n"
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          "# To check if the difference in average price per unit is statistically significant, we will perform an independent t-test between: Mainstre
          "# Budget Midage vs. Young Singles & Couples\n",
2161
          "from scipy.stats import ttest_ind\n",
2162
2163
          "\n".
2164
          "# Extract the per-unit price data for each group\n",
          "mainstream_prices = merged_data.loc[merged_data[\"PREMIUM_CUSTOMER\"] == \"Mainstream\", \"TOT_SALES\"] / merged_data.loc[merged_data[\"PREMIUM_CUSTOMER\"]
2165
      \"Mainstream\", \"PROD QTY\"]\n",
          "premium_prices = merged_data.loc[merged_data[\"PREMIUM_CUSTOMER\"] == \"Premium\", \"TOT_SALES\"] / merged_data.loc[merged_data[\"PREMIUM_CU
2166
      \"PROD_QTY\"]\n",
          "\n",
2167
2168
          "midage_budget_prices = merged_data.loc[(merged_data[\"LIFESTAGE\"] == \"Midage Singles/Couples\") & (merged_data[\"PREMIUM_CUSTOMER\"] == \"
      merged_data.loc[(merged_data[\"LIFESTAGE\"] == \"Midage Singles/Couples\") & (merged_data[\"PREMIUM_CUSTOMER\"] == \"Budget\"), \"PROD_QTT\"]\n"
2169
          "\n".
          "young_singles_prices = merged_data.loc[(merged_data[\"LIFESTAGE\"] == \"Young Singles/Couples\"), \"TOT_SALES\"] / merged_data.loc[(merged_c
2170
      Singles/Couples\"), \"PROD_QTY\"]\n",
2171
          "\n",
2172
          "# Perform independent t-tests\n".
          "t_stat_mainstream_premium, p_value_mainstream_premium = ttest_ind(mainstream_prices.dropna(), premium_prices.dropna(), equal_var=False)\n",
2173
2174
          "t_stat_midage_young, p_value_midage_young = ttest_ind(midage_budget_prices.dropna(), young_singles_prices.dropna(), equal_var=False)\n",
          "\n",
2175
2176
          "# Print results\n",
          "print(f\"T-test (Mainstream vs Premium Customers): t-stat = {t_stat_mainstream_premium:.3f}, p-value = {p_value_mainstream_premium:.3f}\")\"
```

```
2178
          "print(f\"T-test (Midage Budget vs Young Singles/Couples): t-stat = {t_stat_midage_young:.3f}, p-value = {p_value_midage_young:.3f}\")\n",
2179
          "\n",
2180
          "# Interpretation\n",
2181
          "alpha = 0.05 # Significance level\n",
          "\n",
2182
2183
          "if p_value_mainstream_premium < alpha:\n",</pre>
2184
               print(\"There is a significant difference in price per unit between Mainstream and Premium customers.\")\n",
2185
          "else:\n",
2186
              print(\"There is NO significant difference in price per unit between Mainstream and Premium customers.\")\n",
          "\n",
2187
2188
          "if p_value_midage_young < alpha:\n",</pre>
2189
              print(\"There is a significant difference in price per unit between Midage Budget customers and Young Singles/Couples.\")\n",
          "else:\n",
2190
2191
               print(\"There is NO significant difference in price per unit between Midage Budget customers and Young Singles/Couples.\")\n"
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2204
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2205
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                                 2315\n",
2206
            "2
                      Doritos
                                2076\n",
2207
            "3
                       Smiths 1790\n",
            "4
2208
                        Thins
                                1166\n"
2209
            "5
                    Infuzions
                                 962\n"
            "6
2210
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                                  900\n"
            "7
2211
                     Tostitos
                                 890\n"
            "8
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2212
                         Cobs
2213
            "9 Red Rock Deli
                                 639\n"
2214
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2217
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2219
          "# Filter data for Mainstream - Young Singles/Couples\n",
          "target_segment = merged_data[\n",
2220
2221
               (merged_data[\"LIFESTAGE\"] == \"YOUNG SINGLES/COUPLES\") &\n",
2222
               (merged_data[\"PREMIUM_CUSTOMER\"] == \"Mainstream\")\n",
          "]\n",
2223
2224
          "# Count purchases per brand\n",
2225
          "brand_counts = target_segment[\"BRAND\"].value_counts().reset_index()\n",
2226
          "brand counts.columns = [\"BRAND\", \"COUNT\"]\n",
2227
          "\n",
2228
          "# Display top brands\n",
2229
          "print(brand counts.head(10))\n"
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          "\n",
2286
          "# Create a contingency table (brand counts for this segment vs. all customers)\n",
2287
          "overall_brand_counts = merged_data[\"BRAND\"].value_counts()\n",
2288
          "contingency_table = pd.DataFrame({\n",
              2289
2290
              \"All_Customers\": overall_brand_counts\n",
2291
          "}).fillna(0)\n",
          "\n",
2292
2293
          "# Perform chi-square test\n",
2294
          "chi2_stat, p_value, dof, expected = chi2_contingency(contingency_table)\n",
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      "import matplotlib.pyplot as plt\n",
       "import seaborn as sns\n".
       "\n",
      "# Create a new column to distinguish target segment vs rest of population\n",
      "merged_data[\"Customer_Type\"] = merged_data.apply(\n",
              lambda x: \"Young Singles/Couples - Mainstream\" if \n",
              (x[\"LIFESTAGE\"] == \"YOUNG SINGLES/COUPLES\") & \n",
              (x[\"PREMIUM_CUSTOMER'"] == \"Mainstream'") \n",
              else \"Other\", \n",
              axis=1\n",
      ")\n",
      "\n",
       "# Plot the distribution of pack sizes for both groups\n".
       "plt.figure(figsize=(10, 6))\n",
       "sns.boxplot(data=merged_data, x=\"Customer_Type\", y=\"PACK_SIZE\", hue=None, palette=\"viridis\")\n",
      "\n",
      "\n",
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      "plt.title(\"Comparison of Pack Size Preference: Young Singles/Couples vs Others\")\n",
       "plt.xlabel(\"Customer Segment\")\n",
       "plt.ylabel(\"Pack Size (grams)\")\n",
```

"### Insight 9: Midsized packs are mostly purchased in both groups and there is no strong preference for larger pack sizes among Young Sing.

the company wants to increase sales, they might consider promotions on larger packs to see if this segment can be encouraged to buy in bulk."

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