Part-2

November 30, 2022

```
[1]: #importing required libraries
     import pandas as pd
     import numpy as np
     import seaborn as sns
     import sklearn
     import matplotlib.pyplot as plt
```

```
[2]: #importing amazon dataset
     amz = pd.read_csv(r"DS-Assignment_Part_2_data_set\amz_com-ecommerce_sample.
      ↪csv", encoding='latin1')
```

```
[3]: amz.head(3)
```

```
[3]:                             uniq_id            crawl_timestamp   \
     0  c2d766ca982eca8304150849735ffef9  2016-03-25 22:59:23 +0000
     1  7f7036a6d550aaa89d34c77bd39a5e48  2016-03-25 22:59:23 +0000
     2  f449ec65dcbc041b6ae5e6a32717d01b  2016-03-25 22:59:23 +0000

                                             product_url   \
     0  http://www.flipkart.com/alisha-solid-women-s-c…
     1  http://www.flipkart.com/fabhomedecor-fabric-do…
     2  http://www.flipkart.com/aw-bellies/p/itmeh4grg…

                                 product_name   \
     0  Alisha Solid Women's Cycling Shorts
     1  FabHomeDecor Fabric Double Sofa Bed
     2                             AW Bellies

                                  product_category_tree               pid   \
     0  ["Clothing >> Women's Clothing >> Lingerie, Sl…  SRTEH2FF9KEDEFGF
     1  ["Furniture >> Living Room Furniture >> Sofa B…  SBEEH3QGU7MFYJFY
     2  ["Footwear >> Women's Footwear >> Ballerinas >…  SHOEH4GRSUBJGZXE

        retail_price  discounted_price   \
     0           982               438
     1         32143             29121
     2           991               551
```

```
                                                 image  is_FK_Advantage_product  \
0  ["http://img5a.flixcart.com/image/short/u/4/a/…                    False
1  ["http://img6a.flixcart.com/image/sofa-bed/j/f…                    False
2  ["http://img5a.flixcart.com/image/shoe/7/z/z/r…                    False

                                         description        product_rating  \
0  Key Features of Alisha Solid Women's Cycling S…  No rating available
1  FabHomeDecor Fabric Double Sofa Bed (Finish Co…  No rating available
2  Key Features of AW Bellies Sandals Wedges Heel…  No rating available

         overall_rating         brand  \
0  No rating available        Alisha
1  No rating available  FabHomeDecor
2  No rating available            AW

                              product_specifications
0  {"product_specification"=>[{"key"=>"Number of …
1  {"product_specification"=>[{"key"=>"Installati…
2  {"product_specification"=>[{"key"=>"Ideal For"…
```

[4]:
```python
#importing flipkart datset
fk = pd.read_csv(r"DS-Assignment_Part_2_data_set\flipkart_com-ecommerce_sample.
 ↪csv", encoding='latin1')
```

[5]:
```python
fk.head(3)
```

[5]:
```
                         uniq_id            crawl_timestamp  \
0  c2d766ca982eca8304150849735ffef9  2016-03-25 22:59:23 +0000
1  7f7036a6d550aaa89d34c77bd39a5e48  2016-03-25 22:59:23 +0000
2  f449ec65dcbc041b6ae5e6a32717d01b  2016-03-25 22:59:23 +0000

                                         product_url  \
0  http://www.flipkart.com/alisha-solid-women-s-c…
1  http://www.flipkart.com/fabhomedecor-fabric-do…
2  http://www.flipkart.com/aw-bellies/p/itmeh4grg…

                       product_name  \
0  Alisha Solid Women's Cycling Shorts
1  FabHomeDecor Fabric Double Sofa Bed
2                            AW Bellies

                              product_category_tree              pid  \
0  ["Clothing >> Women's Clothing >> Lingerie, Sl…  SRTEH2FF9KEDEFGF
1  ["Furniture >> Living Room Furniture >> Sofa B…  SBEEH3QGU7MFYJFY
2  ["Footwear >> Women's Footwear >> Ballerinas >…  SHOEH4GRSUBJGZXE

   retail_price  discounted_price  \
```

```
0          999.0             379.0
1        32157.0           22646.0
2          999.0             499.0

                                                     image  is_FK_Advantage_product  \
0  ["http://img5a.flixcart.com/image/short/u/4/a/…                           False
1  ["http://img6a.flixcart.com/image/sofa-bed/j/f…                           False
2  ["http://img5a.flixcart.com/image/shoe/7/z/z/r…                           False

                                         description      product_rating  \
0  Key Features of Alisha Solid Women's Cycling S…  No rating available
1  FabHomeDecor Fabric Double Sofa Bed (Finish Co…  No rating available
2  Key Features of AW Bellies Sandals Wedges Heel…  No rating available

          overall_rating          brand  \
0  No rating available         Alisha
1  No rating available  FabHomeDecor
2  No rating available             AW

                            product_specifications
0  {"product_specification"=>[{"key"=>"Number of …
1  {"product_specification"=>[{"key"=>"Installati…
2  {"product_specification"=>[{"key"=>"Ideal For"…
```

[6]:
```python
#dropping unnecessary columns form both the datsets
amz.drop(columns=['crawl_timestamp', 'product_url','product_category_tree',
 ↪'pid',
                  'image', 'is_FK_Advantage_product', 'description',
 ↪'product_rating',
                  'overall_rating', 'brand', 'product_specifications'],inplace
 ↪=True)

fk.drop(columns=['crawl_timestamp', 'product_url','product_category_tree',
 ↪'pid',
                 'image', 'is_FK_Advantage_product', 'description',
 ↪'product_rating',
                 'overall_rating', 'brand', 'product_specifications'],inplace
 ↪=True)
```

[7]:
```python
#renaming columns according to desired output
amz.rename(columns={'product_name':'product name in Amazon','retail_price':
 ↪'retail price in Amazon',
                               'discounted_price':'discounted price in
 ↪Amazon'},inplace=True)

fk.rename(columns={'product_name':'product name in Flipkart','retail_price':
 ↪'retail price in Flipkart',
```

```
                                        'discounted_price':'discounted price in␣
      ↪Flipkart'},inplace=True)
```

[8]:
```
#merging both the datsets together based on common column "uniq_id"
df = pd.merge(fk,amz, how='outer')
```

[9]:
```
df.head(3)
```

[9]:
```
                          uniq_id              product name in Flipkart  \
0  c2d766ca982eca8304150849735ffef9  Alisha Solid Women's Cycling Shorts
1  7f7036a6d550aaa89d34c77bd39a5e48  FabHomeDecor Fabric Double Sofa Bed
2  f449ec65dcbc041b6ae5e6a32717d01b                            AW Bellies

   retail price in Flipkart  discounted price in Flipkart  \
0                     999.0                         379.0
1                   32157.0                       22646.0
2                     999.0                         499.0

             product name in Amazon  retail price in Amazon  \
0  Alisha Solid Women's Cycling Shorts                   982
1  FabHomeDecor Fabric Double Sofa Bed                 32143
2                          AW Bellies                   991

   discounted price in Amazon
0                         438
1                       29121
2                         551
```

[10]:
```
#dropping "uniq_id" column
df.drop('uniq_id',axis=1,inplace=True)
```

[11]:
```
#function to return the required table
def datset():
    #input product name
    x = input("Enter Product name")

    #returns the matching value
    return df[(df['product name in Flipkart'] == x) | (df['product name in␣
  ↪Amazon'] == x)]
```

[12]:
```
data = datset()
data
```

```
Enter Product nameFDT Women's Leggings
```

[12]:
```
    product name in Flipkart  retail price in Flipkart  \
28        FDT Women's Leggings                     699.0
```

```
      discounted price in Flipkart      product name in Amazon  \
28                            309.0  FDT WOMEN'S Leggings Pants

      retail price in Amazon  discounted price in Amazon
28                       698                          362
```

[13]:
```
data = datset()
data
```

Enter Product nameFDT WOMEN'S Leggings Pants

[13]:
```
    product name in Flipkart  retail price in Flipkart  \
28        FDT Women's Leggings                     699.0

      discounted price in Flipkart      product name in Amazon  \
28                            309.0  FDT WOMEN'S Leggings Pants

      retail price in Amazon  discounted price in Amazon
28                       698                          362
```