

# Konecta

## Task (5) Documentation

Web Scraping + Dashboarding

Malak Ahmed Saber

# 1. Web Scrapping

- Main Site (English Version) :
  - <https://dream2000.com/en>
- Scraped 5 Categories :
  - <https://dream2000.com/en/mobiles.html>
  - <https://dream2000.com/en/tablets.html>
  - <https://dream2000.com/en/laptop-notebook/laptop.html>
  - <https://dream2000.com/en/accessories/mobile-accessories/power-bank.html>
  - <https://dream2000.com/en/accessories/audio/speakers.html>

## 2. Data Cleaning with Power Query

- Renamed all queries with their category name
- Dropping Irrelevant Columns:
  - “Add to cart”, “Wishlist”, “Compare”
  - Also 3 columns filled with null values in tablets query
- Removed the “After Discount Price” column from all queries and will calculate it as a measure from “Original Price” – “Saved”
- For “Original Price” column I converted the values like EGP2000 to 2000, using replace EGP -> empty space

- “Save x EGP” column fixed with Transform -> column from examples
- Checked no nulls or ubnormal values in that new column
- Dropped old column

	AB <sub>C</sub> Column1 <input checked="" type="checkbox"/>	AB <sub>C</sub> Column2 <input checked="" type="checkbox"/>	AB <sub>C</sub> Column3	Text Between Delimiters
1	Save 1100 EGP	Realme	Realme Note 60X 3GB Ram, 64GB - Marble Black	1100
2	Save 1100 EGP	Realme	Realme Note 60X 3GB Ram, 64GB - Wilderness Green	1100
3	Save 1500 EGP	Xiaomi	Xiaomi Redmi A3x 4GB Ram, 128GB - Midnight Black	1500
4	Save 1500 EGP	Xiaomi	Xiaomi Redmi A3x 4GB Ram, 128GB - Aurora Green	1500
5	Save 1500 EGP	Xiaomi	Xiaomi Redmi A3x 4GB Ram, 128GB - Moonlight White	1500
6	Save 5509 EGP	Samsung	Samsung Galaxy M55 5G, 8GB Ram, 128GB - Light Green	5509
7	Save 5509 EGP	Samsung	Samsung Galaxy M55 5G, 8GB Ram, 128GB - Black	5509
8	Save 2600 EGP	Samsung	Samsung Galaxy A26 5G, 6GB Ram, 128GB - Black	2600
9	Save 4700 EGP	Samsung	Samsung Galaxy A56 5G, 8GB Ram, 128GB - Awesome Pink	4700
10	Save 4700 EGP	Samsung	Samsung Galaxy A56 5G, 8GB Ram, 128GB - Awesome Lightgray	4700
11	Save 5100 EGP	Samsung	Samsung Galaxy A56 5G, 8GB Ram, 256GB - Awesome Lightgray	5100
12				

Save 1100 EGP.

- Renamed all columns to have the following for all 5 queries:
  - “Brand”
  - “ProductName”
  - “OriginalPrice”
  - “Saved”
- Changed the “OriginalPrice” and “Saved” columns data types to Whole Number instead of strings
- To finish up :
  - Added “Category” column in each query
  - Combined the 5 queries into 1 table “Dream2000Data” to use for dashboarding
  - Disabled Loading for the original 5 queries : right click -> disable load
  - Close and apply so only “Dream2000Data” is loaded

# 3. DAX



New column "Sale Price" :

- SalePrice = Dream2000Data[OriginalPrice] - Dream2000Data[Saved]

New Measure "Total Products" :

- Total Products = COUNTROWS(Dream2000Data)

New Measure "Average Sale Price" & Average Original Price:

- Average Original Price = Average(Dream2000Data[OriginalPrice])
- Average Original Price = Average(Dream2000Data[SalePrice])

New Measure "Discount Amount" and "Average Discount %":

- Discount Amount = SUMX(Dream2000Data, Dream2000Data[OriginalPrice] - Dream2000Data[SalePrice])
- Avg Discount % = AVERAGEX(
  - FILTER(Dream2000Data, Dream2000Data[OriginalPrice] > 0 && Dream2000Data[SalePrice] > 0),
  - DIVIDE(Dream2000Data[OriginalPrice] - Dream2000Data[SalePrice], Dream2000Data[OriginalPrice]))

New column "Price Band" to be used in a visual:

- Price Band =
- SWITCH(
  - TRUE(),
  - Dream2000Data[SalePrice] < 2000, "Below 2000",
  - Dream2000Data[SalePrice] >= 2000 && Dream2000Data[SalePrice] < 5000, "2000 - 4999",
  - Dream2000Data[SalePrice] >= 5000 && Dream2000Data[SalePrice] < 10000, "5000 - 9999",
  - Dream2000Data[SalePrice] >= 10000 && Dream2000Data[SalePrice] < 20000, "10000 - 19999",
  - Dream2000Data[SalePrice] >= 20000, "20000+",
  - "Unknown")

# 4. Dashboarding

Overview

Discounts

Deep Dive

Total Products

200

Average Original Price

23.47K

Average Sale Price

18.87K

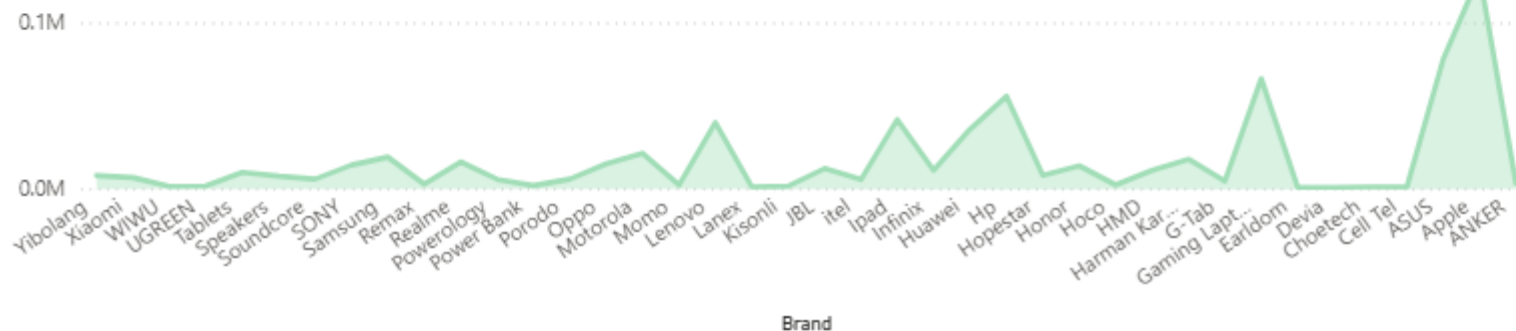
Avg Discount %

0.21

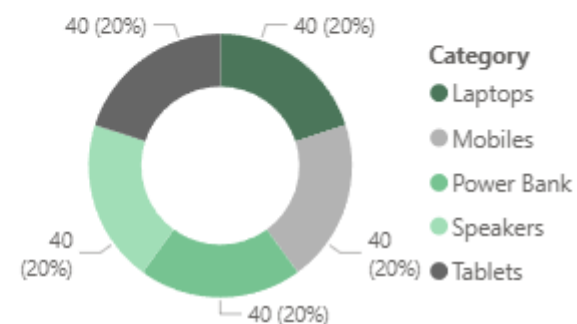
Discount Amount

919K

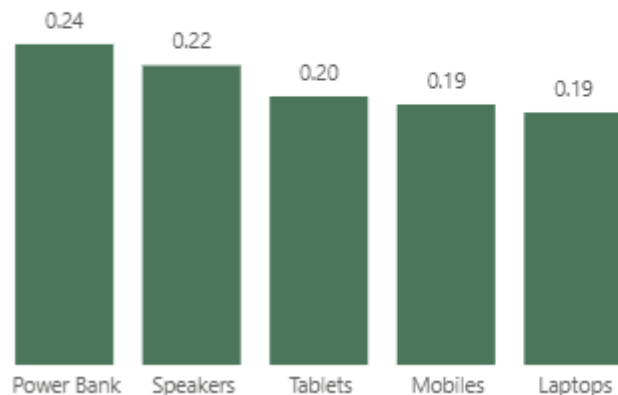
Average Price per Brand



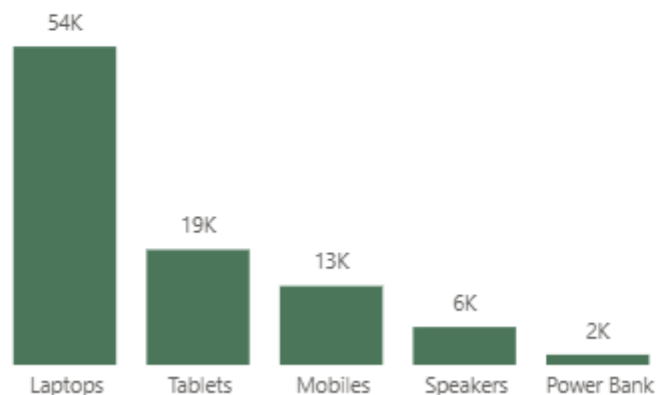
Total Products by Category



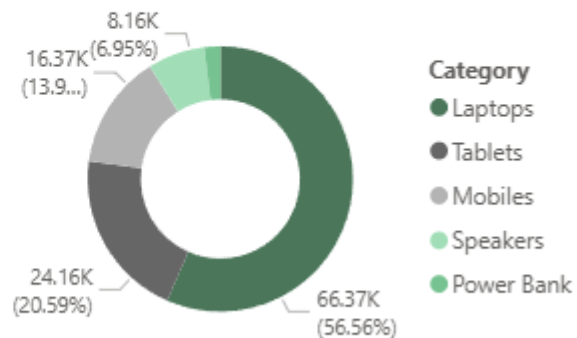
Discount % per Category



Average Sale Price by Category



Average Original Price by Category



Overview

Discounts

Deep Dive

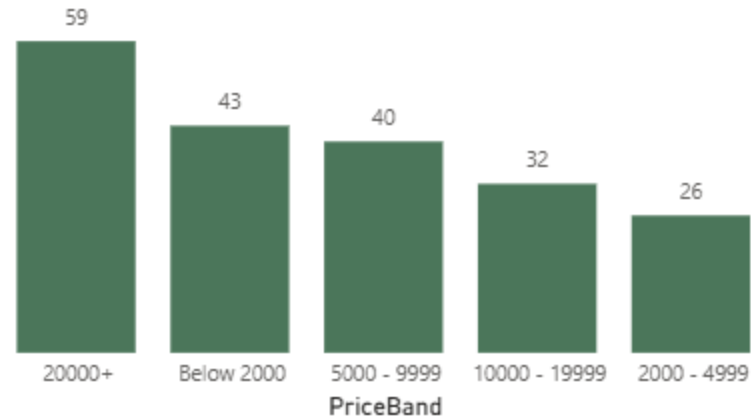
Category

- ☐ Laptops
- ☐ Mobiles
- ☐ Power Bank
- ☐ Speakers
- ☐ Tablets

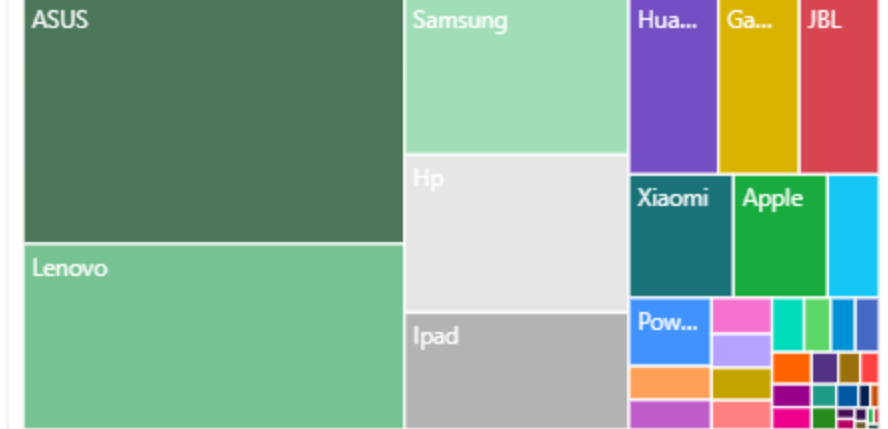
Brand

- ☐ ANKER
- ☐ Apple
- ☐ ASUS
- ☐ Cell Tel
- ☐ Choetech
- ☐ Devia
- ☐ Earldom
- ☐ Gaming Laptop
- ☐ G-Tab
- ☐ Huawei Mate

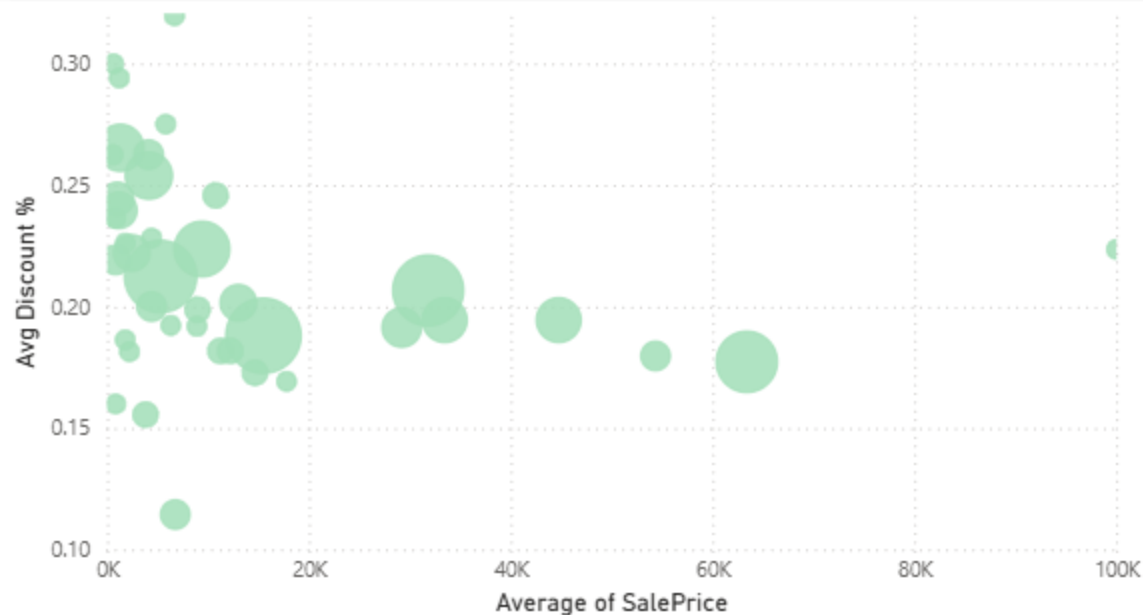
Total Products by PriceBand



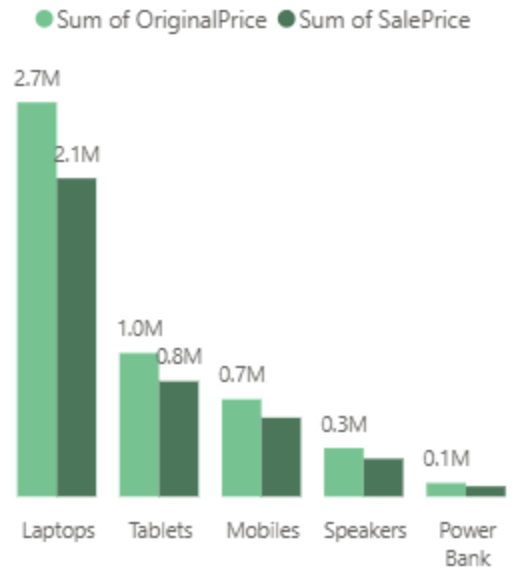
Discount Amount by Brand



Average of SalePrice vs Avg Discount % Sized with Total Products by Brand



Sum of OriginalPrice and Sum of SalePrice by Category



Overview

Discounts

Deep Dive

Help Q&A understand people better by adding synonyms.

Add synonyms now



Ask a question about your data



Try one of these to get started

what is the total products by category

what is the average sale price by category

what is the average original price by category

top categories by total products

top price bands by average sale price

### Sum of Saved by ProductName



### Total Products by Brand

