## PROJECT #1 : Online Sales Data Popoular Marketplace

```
/*Bar Chart showing monthly sales over the months available : month ex. 1 = \text{January etc.*/}
SELECT MONTH(Date) AS Month,
       SUM(Total_Revenue) AS [Monthly Sales]
FROM [Online Sales Data].[dbo].[Online Sales Data]
GROUP BY MONTH(Date)
ORDER BY MONTH(Date);
     (8 rows affected)
     Total execution time: 00:00:00.005
     Month Monthly Sales
          14548.319875717163
     2
           10803.369953155518
     3
           12849.239894866943
     4
           12451.68991470337
     5
           8455.489954948425
     6
           7384.549964904785
     7
           6797.079990386963
     8
           7278.109984397888
```

What months is revenue the highest? Why?

Above you can see a large flow within the first 4 months of the year (Jan-Apr) which can be a result of tax returns.

```
/*Pie Chart showing the distribution of sales across different product cateorgies*/
SELECT Product_Category,
       SUM(Total Revenue) AS [Category Sales]
FROM [Online Sales Data].[dbo].[Online Sales Data]
GROUP BY Product_Category
ORDER BY [Category Sales];
    (6 rows affected)
     Total execution time: 00:00:00.007
     Product_Category Category Sales
     Books
                1861.9300003051758
     Beauty Products 2621.8999977111816
     Clothing
                   8128.9300537109375
                     14326.519886016846
     Home Appliances 18646.15990447998
                     34982.40969085693
     Electronics
```

What product category is makes up a greater part of our revenue?

Sales within the "Electronics" category makes up close to 40%-50% of the total revenue. This cost could be due to an increase in the electronics industry. I was thinking it could also be due to the cost difference between for example, an iphone over a book or beauty product but as you can see, they are 2x the total sales of Home Appliances.

```
/*Line Chart showing average sales over the available months*/
SELECT MONTH(Date) AS [Month],
       AVG(Total_Revenue) AS [Average Revenue]
FROM [Online Sales Data].[dbo].[Online Sales Data]
GROUP BY MONTH([Date])
ORDER BY MONTH(Date);
     (8 rows affected)
     Total execution time: 00:00:00.007
     Month Average Revenue
          469.3006411521666
     2
           372.52999838467304
     3
           414.4916095118369
     4
           415.0563304901123
     5
           272.7577404822073
```

246.15166549682618

219.26064485119235 269.55962905177364

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Here is a line chart showing the average sales over the available months showing us trends caused by either seasons and sales patterns, showing the first 4 months of the year with almost double the average of the following 4 months.

(232 rows affected)

Nintendo Switch

Philips Airfryer XXL Ninja Foodi Pressure Cooker

**Cuisinart Coffee Center** 

Total execution time: 00:00:00.016

Product\_Name Total\_Revenue Canon EOS R5 Camera 3899.989990234375 LG OLED TV 2599.97998046875 MacBook Pro 16-inch 2499.989990234375

Apple MacBook Pro 16-inch 2399

iPhone 14 Pro 1999.97998046875

Peloton Bike 1895 HP Spectre x360 Laptop 1599.989990234375 Roomba i7+ 1599.97998046875 Garmin Forerunner 945 1599.969970703125 Samsung Odyssey G9 Gaming Monitor 1499.989990234375 Samsung Galaxy Tab S8 1499.97998046875 Microsoft Surface Laptop 4 1299.989990234375 Apple MacBook Air 1199.989990234375 Samsung QLED 4K TV 1199 989990234375 Apple iPad Air 1199 97998046875 Blueair Classic 480i 1199.97998046875 Apple Watch Series 8 1199.969970703125 Dyson Supersonic Hair Dryer 1199.969970703125 GoPro HERO10 Black 1199.969970703125 Sony WH-1000XM4 Headphones 1049.969970703125 Garmin Fenix 6X Pro 999.989990234375 Google Pixel 6 Pro 899.989990234375 De'Longhi Magnifica Espresso Machine 899.989990234375 Bose SoundLink Revolve+ Speaker 899.969970703125

Canon EOS Rebel T7i DSLR Camera 749.989990234375 Bowflex SelectTech 1090 Adjustable Dumbbells 699.989990234375 Samsung Odyssey G7 Gaming Monitor 699.989990234375 Shark IQ Robot Vacuum 699.97998046875 Fitbit Versa 3 689.8499908447266 Eufy RoboVac 11S 659.9700164794922

899.969970703125

399.9800109863281

399.9800109863281

399.8999938964844

Google Pixelbook Go 649.989990234375 Garmin Edge 530 599.97998046875 Babolat Pure Drive Tennis Racket 599.9700164794922 Breville Smart Grill 599.9000244140625

Anova Precision Oven 599 549 Apple AirPods Max

Nike Air Force 1 539.9399871826172 Keurig K-Elite Coffee Maker 529 9700164794922 KitchenAid Artisan Stand Mixer 499 989990234375 Dvson V11 Vacuum 499.989990234375 Dyson Pure Cool Link 499.989990234375 Sony PlayStation 5 499.989990234375 North Face Down Jacket 499.9800109863281 Apple AirPods Pro 499.9800109863281 Breville Nespresso Creatista Plus 499.95001220703125 Polar Vantage V2 499.95001220703125 Manduka PRO Yoga Mat 479.9599914550781 Ray-Ban Aviator Sunglasses 464.9700164794922 459.9800109863281 Philips Sonicare DiamondClean Toothbrush Google Nest Hub Max 459.9800109863281 GoPro HERO9 Black 449.989990234375 iRobot Braava Jet M6 449.989990234375 Bowflex SelectTech 552 Dumbbells 399.989990234375 Dyson V8 Absolute 399.989990234375 Yeti Tundra Haul Portable Wheeled Cooler 399.989990234375

399 Sonos Beam Soundbar Anova Precision Cooker 398

Nike Metcon 6 389.9700164794922 KitchenAid Stand Mixer 379.989990234375 Adidas Ultraboost Running Shoes 359.9800109863281 Adidas Ultraboost Shoes 359.9800109863281

Apple TV 4K 358 
 Vitamix Explorian Blender
 349.989990234375

 YETI Tundra 65 Cooler
 349.989990234375

Hyperice Hypervolt Massager 349

Adidas Originals Superstar Sneakers 319.9599914550781 299.989990234375 Breville Smart Oven Bose QuietComfort 35 Headphones 299.989990234375 299.989990234375 Garmin Forerunner 245 YETI Tundra 45 Cooler 299.989990234375 Samsung Galaxy Watch 4 299.989990234375 Bose SoundSport Wireless Earbuds 299 9800109863281 Fitbit Luxe 299.8999938964844

Bose QuietComfort 35 II Wireless Headphones 299
Lululemon Align Leggings 294

 Instant Pot Duo Evo Plus
 279.9800109863281

 Patagonia Better Sweater
 279.9800109863281

Nike Air Force 1 Sneakers 270

269.9699935913086 Instant Pot Duo Nike Air Zoom Pegasus 37 259.9800109863281 Kindle Paperwhite 259.9800109863281 Fitbit Charge 5 259.9800109863281 On Running Cloud Shoes 259.9800109863281 Adidas Originals Trefoil Hoodie 259.9599914550781 Amazon Echo Show 10 249.99000549316406 YETI Hopper Flip Portable Cooler 249.99000549316406 Titleist Pro V1 Golf Balls 249.95000839233398 Tommy Hilfiger Polo Shirt 249 95000839233398 239.9699935913086 Uniqlo Ultra Light Down Jacket Puma Suede Classic Sneakers 239.9600067138672 Anker PowerCore Portable Charger 239.9600067138672 Columbia Fleece Jacket 239.9600067138672 Yeti Rambler Tumbler 239.94001007080078 Under Armour HOVR Sonic 4 Shoes 219.97999572753906

 Logitech MX Master 3 Mouse
 199.97999572753906

 Amazon Echo Dot (4th Gen)
 199.9600067138672

 Breville Smart Coffee Grinder Pro
 199.9499969482422

209.9699935913086

209.9699935913086

199.99000549316406

199.99000549316406

199.99000549316406

199.99000549316406

199.89999389648438

Lululemon Wunder Under High-Rise Leggings 196 Levi's Sherpa Trucker Jacket 196

La Mer Crème de la Mer Moisturizer 190

Rogue Fitness Kettlebell

Nespresso VertuoPlus

Yeti Roadie 24 Cooler

Fitbit Inspire 2

Logitech G Pro X Wireless Gaming Headset

Cuisinart Custom 14-Cup Food Processor

Levi's 501 Jeans

 Instant Pot Duo Crisp
 179.99000549316406

 Panasonic NN-SN966S Microwave
 179.99000549316406

 Levi's Trucker Jacket
 179.97999572753906

 Levi's 511 Slim Fit Jeans
 179.9700050354004

 Gap 1969 Original Fit Jeans
 179.9700050354004

 Zara Summer Dress
 179.9700050354004

 TRX All-in-One Suspension Training System
 169.9499969482422

Google Nest Wifi Router 169

164.9700050354004 Nike Sportswear Club Fleece Hoodie Nespresso Vertuo Next Coffee and Espresso Maker 159.99000549316406 Cuisinart Griddler Deluxe 159.99000549316406 Keurig K-Mini Coffee Maker 159.97999572753906 Hydro Flask Wide Mouth Water Bottle 159.8000030517578 Gap High Rise Skinny Jeans 149.9700050354004 Champion Reverse Weave Hoodie 149.9700050354004 Amazon Fire TV Stick 4K 149.9700050354004 Yeti Rambler Bottle 149.9700050354004 Wilson Evolution Basketball 149.94999885559082 Under Armour HeatGear T-Shirt 149.94999885559082 Adidas 3-Stripes Shorts 149.94999885559082 Calvin Klein Boxer Briefs 149.94999885559082 Spalding NBA Street Basketball 149.93999862670898

Oakley Holbrook Sunglasses 146

Instant Pot Ultra 139.99000549316406

 Nike Dri-FIT Training Shorts
 139.9600067138672

 Gap Crewneck Sweatshirt
 139.9600067138672

 Adidas Essential Track Pants
 134.9700050354004

 The Silent Patient by Alex Michaelides
 134.94999885559082

Becoming by Michelle Obama 130

Chanel No. 5 Perfume 129.99000549316406

Bose SoundLink Color Bluetooth Speaker II 129
Tom Ford Black Orchid Perfume 125

 H&M Slim Fit Jeans
 119.97000503540039

 Gap Essential Crewneck T-Shirt
 119.93999862670898

 Salt, Fat, Acid, Heat by Samin Nosrat
 107.97000503540039

Sunday Riley Good Genes 105 Estee Lauder Advanced Night Repair 105

Nike Tempo Running Shorts 104.97000503540039

Lancome La Vie Est Belle 102
Charlotte Tilbury Magic Cream 100

Ninja Professional Blender 99.98999786376953 Ring Video Doorbell 99.98999786376953 Crock-Pot 6-Quart Slow Cooker 99.9800033569336 Under Armour Tech 2.0 T-Shirt 99.95999908447266 Instant Pot Duo Nova 99.94999694824219 Hanes ComfortSoft T-Shirt 99.89999771118164 Hydro Flask Standard Mouth Water Bottle 98.85000228881836 Hamilton Beach FlexBrew Coffee Maker 89.98999786376953 Neutrogena Skincare Set 89.98999786376953 Old Navy Mid-Rise Rockstar Super Skinny Jeans 89.9800033569336 Adidas FIFA World Cup Football 89.96999931335449 The Catcher in the Rye by J.D. Salinger 88.92999839782715

Educated by Tara Westover 84
Kiehl's Midnight Recovery Concentrate 82

 L'Oreal Revitalift Serum
 79.9800033569336

 1984 by George Orwell
 79.9599908447266

Caudalie Vinoperfect Radiance Serum 79
Drunk Elephant C-Firma Day Serum 78

 Where the Crawdads Sing by Delia Owens
 75.95999908447266

 Harry Potter and the Sorcerer's Stone
 74.96999931335449

 Dune by Frank Herbert
 71.95999908447266

 TriggerPoint GRID Foam Roller
 69.9800033569336

Tatcha The Water Cream 68
First Aid Beauty Ultra Repair Cream 68

 Atomic Habits by James Clear
 67.95999908447266

 Forever 21 Graphic Tee
 64.94999885559082

 The Da Vinci Code
 63.959999084472656

 Yeti Rambler 20 oz Tumbler
 59.97999954223633

 To Kill a Mockingbird by Harper Lee
 59.959999084472656

 Old Navy Relaxed-Fit T-Shirt
 59.959999084472656

 Uniqlo Airism Mesh Boxer Briefs
 59.599998474121094

GlamGlow Supermud Clearing Treatment 59
L'Occitane Shea Butter Hand Cream 58
Sunday Riley Luna Sleeping Night Oil 55

The Girl with the Dragon Tattoo by Stieg Larsson 52.94999885559082

Clinique Moisture Surge 52
Dr. Jart+ Cicapair Tiger Grass Color Correcting Treatment 52

 The Great Alone by Kristin Hannah
 50.96999931335449

 Olay Regenerist Face Cream
 49.9900016784668

Shiseido Ultimate Sun Protector 49 Anastasia Beverly Hills Brow Wiz 46

 Gone Girl by Gillian Flynn
 45.97999954223633

 The Alchemist by Paulo Coelho
 44.96999931335449

 The Subtle Art of Not Giving a F\*ck by Mark Manson
 44.96999931335449

 The Girl on the Train by Paula Hawkins
 43.959999084472656

 Uniqlo Airism Seamless Boxer Briefs
 39.599998474121094