Analysis Report

1. What was the total revenue generated by the company over the course of the year?
   * Total revenue: 758330.0$
2. Which product had the highest revenue? How much revenue did it generate?
   * Product name: Smartphone and its revenue: 7200.0$
   * Total quantity sold of smartphones: 713.
   * average revenue smartphones: 434400.0$
3. What was the average price of a product sold by the company?

|  |  |
| --- | --- |
| **Product** | **Average price** |
| Backpack | 50.0 |
| Coat | 100.0 |
| Headphones | 100.0 |
| Hoodie | 40.0 |
| Jeans | 50.0 |
| Laptop | 1200.0 |
| Smartphone | 600.0 |
| Smartwatch | 200.0 |
| Sneakers | 80.0 |
| Speaker | 80.0 |
| T-Shirt | 20.0 |
| Tablet | 400.0 |
| Wallet | 30.0 |
| Watch | 150.0 |

* + A picture containing screenshot, line, rectangle, design

    Description automatically generated

1. What was the total quantity of products sold by the company?

|  |  |
| --- | --- |
| **Product** | **Total quality** |
| Backpack | 408.0 |
| Coat | 338.0 |
| Headphones | 180.0 |
| Hoodie | 525.0 |
| Jeans | 413.0 |
| Laptop | 5.0 |
| Smartphone | 713.0 |
| Smartwatch | 304.0 |
| Sneakers | 270.0 |
| Speaker | 496.0 |
| T-Shirt | 1005.0 |
| Tablet | 45.0 |
| Wallet | 440.0 |
| Watch | 218.0 |

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1. Which category had the highest revenue? How much revenue did it generate?
   * Category name: Electronics, its revenue: 7200.0$

|  |  |
| --- | --- |
| **Category name** | **Average Revenue** |
| Accessories | 1517.391304 |
| Bags | 847.826087 |
| Bags | 900.000000 |
| Clothing | 1200.000000 |
| Clothing | 786.250000 |
| Electronics | 3969.846154 |
| Shoes | 897.391304 |
| Shoes | 960.000000 |

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1. What was the average revenue per sale?

|  |  |
| --- | --- |
| **Product** | **Average revenue** |
| Backpack | 850.000000 |
| Coat | 965.714286 |
| Headphones | 1384.615385 |
| Hoodie | 875.000000 |
| Jeans | 860.416667 |
| Laptop | 6000.000000 |
| Smartphone | 5297.560976 |
| Smartwatch | 1680.000000 |
| Sneakers | 900.000000 |
| Speaker | 1587.200000 |
| T-Shirt | 528.947368 |
| Tablet | 2000.000000 |
| Wallet | 1100.000000 |
| Watch | 1486.363636 |

* + A picture containing text, screenshot, colorfulness, circle

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1. What was the total revenue generated in each quarter of the year? (i.e., Q1, Q2, Q3, Q4)

|  |  |
| --- | --- |
| **Quarter** | **Total revenue** |
| First quarter | 182100.0 |
| second quarter | 183970.0 |
| third quarter | 197680.0 |
| fourth quarter | 194580.0 |

* + Quarter of max revenue: Q3, its total revenue: 197680.0$
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1. What was the total revenue generated in each month of the year?

|  |  |
| --- | --- |
| **Month** | **Average revenue** |
| January | 1993.939394 |
| February | 1919.285714 |
| March | 2018.064516 |
| April | 1924.137931 |
| May | 2242.258065 |
| June | 1955.333333 |
| July | 2242.258065 |
| August | 2105.161290 |
| September | 2097.000000 |
| October | 2076.875000 |
| November | 2068.064516 |
| December | 2064.838710 |

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  + Month name of max revenue: May, and its revenue equals 2242.2580645161293

# Appendix

* You can find all the code in the jupyter notebook main.ipynb

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