

DATA BOOTCAMP
FINAL PROJECT
PRESENTATION
EXCEL, POWER BI &
MYSQL

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APRIL 2022

OBJECTIVE

Learn how to become a data analyst

Understanding how to use analytical programs

Increase my knowledge

Upskill myself

FINAL PROJECT-THE DATA

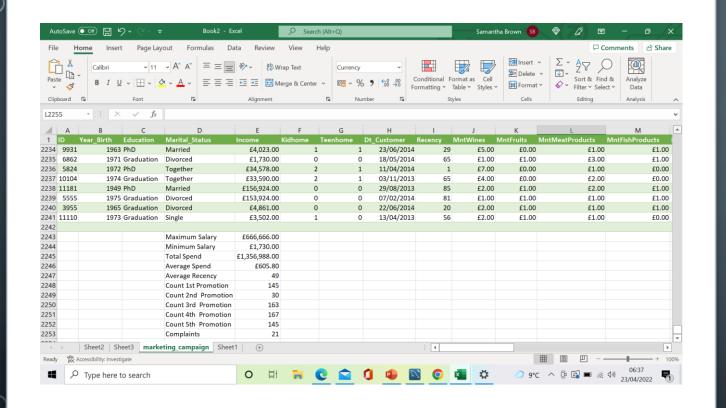
I chose to work with a customer personality dataset. I believed that this data aligned a lot with my previous experience working in the marketing industry.

I am going to use the data to identify who's the company's target customer and which campaigns were most successful.





EXCEL



The Formulas used

=MAX(marketing_campaign[lncome])

=MIN(marketing_campaign[lncome])

=SUM(P2:P2241)

=AVERAGE(P2:P2241)

=AVERAGE(marketing_campaign[Recency])

=COUNTIF(marketing_campaign[Accepted Cmp1],Y2242) (Used for all promotion type and complaints)

EXCEL- PIVOT TABLES (GROUPING AND SORTING)

1			
2			
3	Count of Total Sales		
4	Total Sales	-	Total
5	<0 or (blank)		
6	0-499		1245
7	500-999		393
8	1000-1499		356
9	1500-1999		196
0	2000-2499		47
1	2500-2999		3
2	Grand Total		2240
3			

This has grouped the sales by count, created a range function and then sorted from largest to smallest.

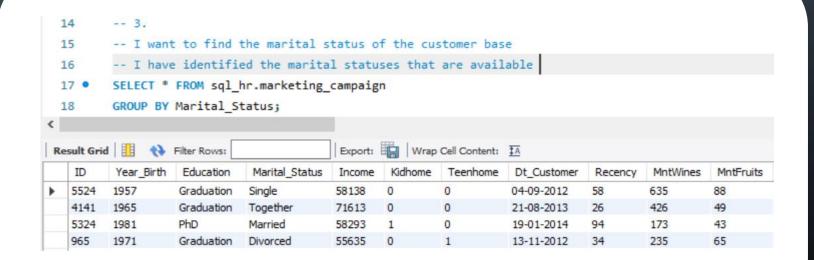
2			
3	Count of Total Sales		
4	Income	*	Total
5	<0 or (blank)		24
6	0-24999		242
7	25000-49999		818
8	50000-74999		797
9	75000-99999		346
10	100000-124999		5
11	150000-174999		7
12	650000-674999		1
13	Grand Total		2240
14			

This has been grouped by income, the income range was created to show the count of sales within each salary range.

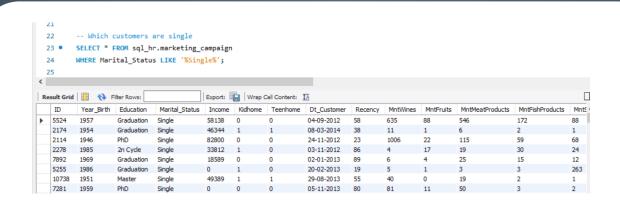
ı					
Sum of Total Sales	Sum of Total Sales				
Education ↓↓	Total				
Graduation	£698,626.00				
PhD	£326,791.00				
Master	£226,359.00				
2n Cycle	£100,795.00				
Basic	£4,417.00				
(blank)					
Grand Total	1356988				
	Education Graduation PhD Master 2n Cycle Basic (blank)				

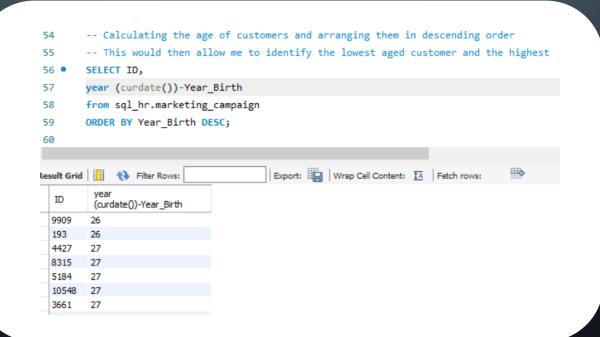
This has been grouped by education, Sum of sales, then sorted from largest to smallest.

SQL-DATA ANALYTICS



SQL-DATA ANALYTICS





SQL-DATA ANALYTICS

```
-- Calculating the age of customers and arranging them in descending order
        -- This would then allow me to identify the lowest aged customer and the highest
        SELECT ID,
        year (curdate())-Year_Birth
        from sql_hr.marketing_campaign
        ORDER BY Year Birth DESC;
                                           Export: Wrap Cell Content: A Fetch rows:
Result Grid | | Note | Filter Rows:
  ID
         (curdate())-Year_Birth
  193
  4427
  8315
  5184
         27
  10548
  3661
```

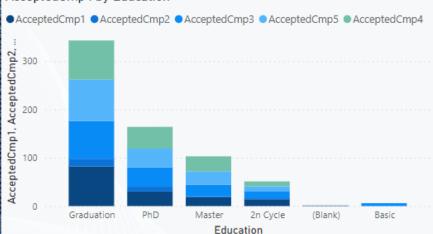
```
61 -- Group by age range using new field created
62
63 • SELECT SUM(CASE WHEN year (curdate())-Year_Birth BETWEEN 26 AND 50 THEN 1 ELSE 0 END) AS '26-50',
64 SUM(CASE WHEN year (curdate())-Year_Birth BETWEEN 51 AND 75 THEN 1 ELSE 0 END) AS '51-75',
65 SUM(CASE WHEN year (curdate())-Year_Birth BETWEEN 76 AND 129 THEN 1 ELSE 0 END) AS '76-12'
66 FROM sql_hr.marketing_campaign
67

Result Grid 
Filter Rows:

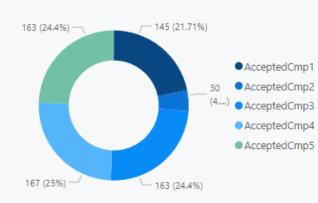
| Export: | Wrap Cell Content: | TA
```

POWER -BI



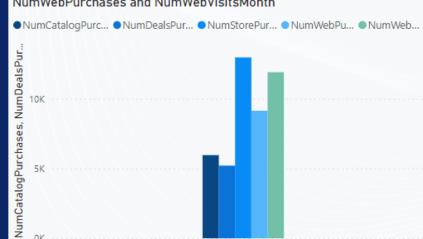


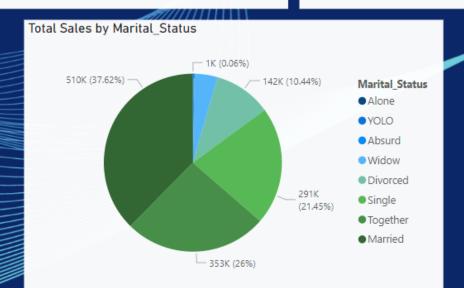




Marital_Status	Kidhome	Teenhome
Married	394	442
Together	261	307
Single	223	195
Divorced	96	137
Widow	18	49
Alone	3	2
Absurd	0	0
YOLO	0	2
Total	995	1134

NumCatalogPurchases, NumDealsPurchases, NumStorePurchases, NumWebPurchases and NumWebVisitsMonth





CONCLUSION

- The largest number of customers are between the ages of 51-57
- The most successful campaign was campaign 4
- The least successful campaign was campaign 2
- The largest proportion of customers were married followed closely by together
- The store purchases were higher than web purchases
- A large number of customers were parents
- Those whose level of education was of a Graduate level provided the largest number of sales
- The largest customer base had an income between £50k-£75k

The company should run a campaign that is similar to 'Campaign 4' aimed at parents between the ages 51-57, with an income over £50k, educated to degree level.



