# NoSQL Assignment

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# Sale Data Visualisation

## I.   Technologies

- MongoDB

- NodeJS

- VueJS

## II.   Sale Dataset

- The data contains 9 columns, including a product description, quantity of items sold, unit price, date of sale, and country.

- Dataset: [Link]
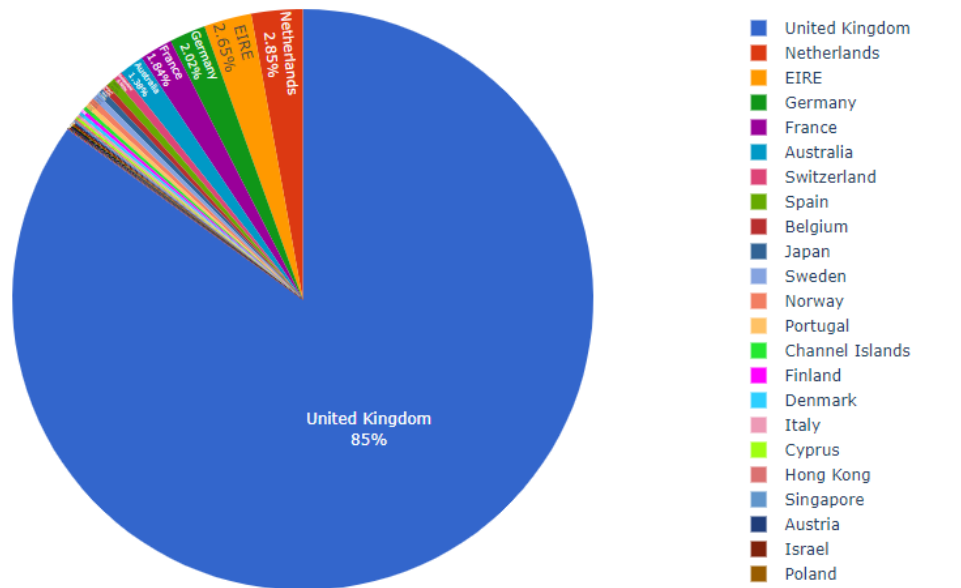
## III.   Sales Visualization

1.   What are the total sales by each country?

2.   What are the total sales by each month?

3.   How Many Customers Purchased Products Each Month? How Many New Customers Each Month?

4.   Which is the Best Selling Product in Each Country?

5.   Which are the Most Successful Products Overall?

6.   Which Customers Contributed the Most to Total Sales?
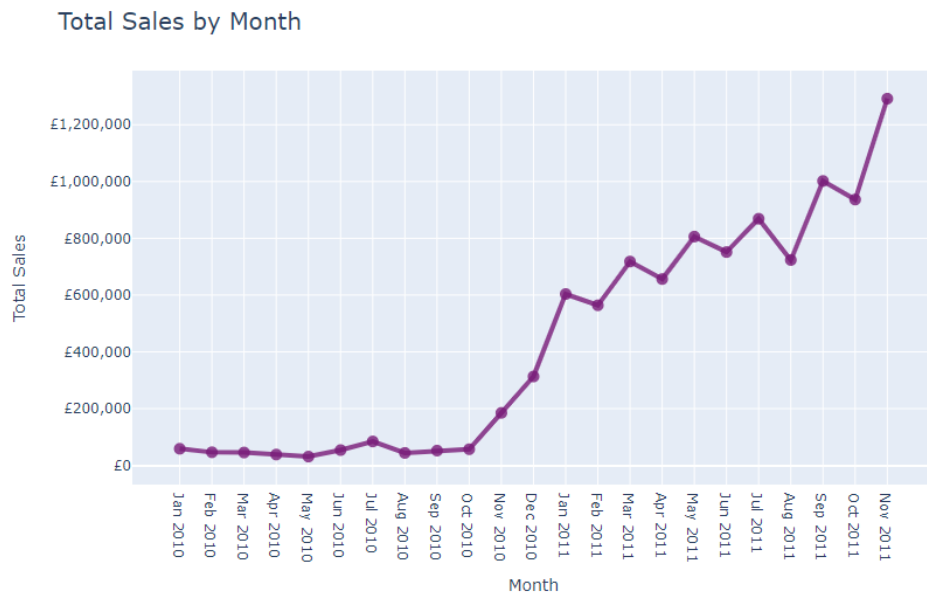
## IV.   References

1. Sales Analysis and Visualization [Link]

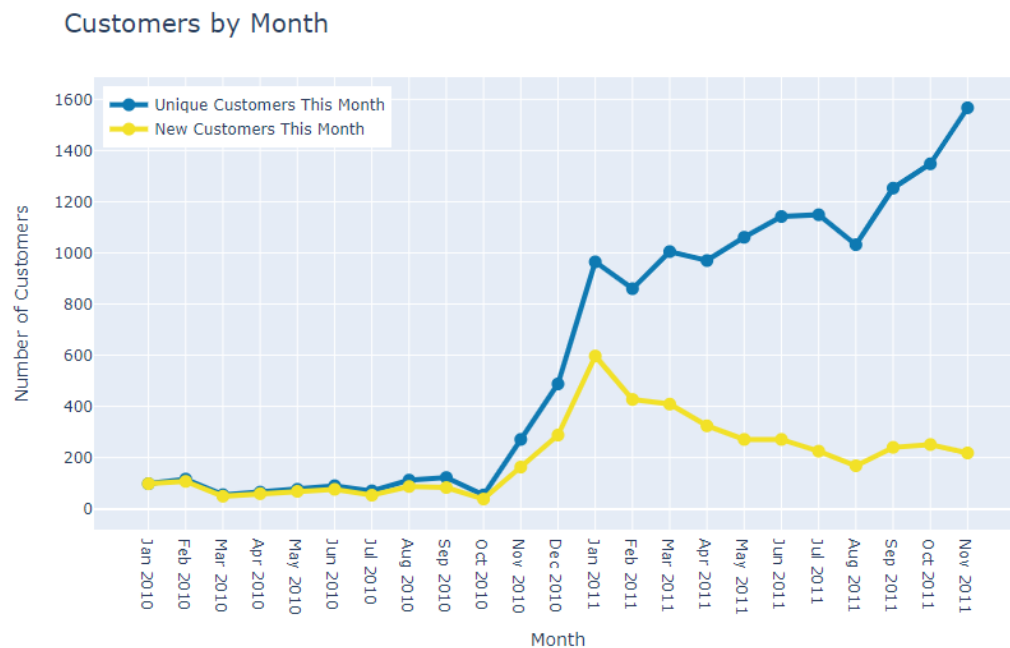2. Sample project for initial [Link]

# V.  Example

1.  What are the total sales by each country?



2.  What are the total sales by each month?

3. How Many Customers Purchased Products Each Month? How Many New Customers Each Month?

**Customers by Month**



4. Which is the Best Selling Product in Each Country?

|  | Best_Selling_Product_in_X_Countries |
| --- | --- |
| REGENCY CAKESTAND 3 TIER | 8 |
| RABBIT NIGHT LIGHT | 4 |
| ROUND SNACK BOXES SET OF4 WOODLAND | 3 |
| PINK 3 PIECE POLKADOT CUTLERY SET | 3 |
| RETROSPOT TEA SET CERAMIC 11 PC | 2 |
| RETRO COFFEE MUGS ASSORTED | 1 |
| PLASTERS IN TIN STRONGMAN | 1 |
| SET 6 SCHOOL MILK BOTTLES IN CRATE | 1 |
| MINI PAINT SET VINTAGE | 1 |
| ICE CREAM SUNDAE LIP GLOSS | 1 |
| BISCUIT TIN VINTAGE RED | 1 |
| GRAND CHOCOLATECANDLE | 1 |
| 3D DOG PICTURE PLAYING CARDS | 1 |

## 5. Which are the Most Successful Products Overall?

| | Description | Quantity | UnitPrice |
|---|---|---|---|
| 0 | *Boombox Ipod Classic | 1 | 16.980000 |
| 1 | *USB Office Mirror Ball | 2 | 8.470000 |
| 2 | 10 COLOUR SPACEBOY PEN | 6392 | 1.050917 |
| 3 | 12 COLOURED PARTY BALLOONS | 2135 | 0.703000 |
| 4 | 12 DAISY PEGS IN WOOD BOX | 349 | 1.907143 |
| ... | ... | ... | ... |
| 3782 | ZINC T-LIGHT HOLDER STARS SMALL | 5045 | 0.942446 |
| 3783 | ZINC TOP 2 DOOR WOODEN SHELF | 8 | 20.359286 |
| 3784 | ZINC WILLIE WINKIE CANDLE STICK | 2922 | 1.089084 |
| 3785 | ZINC WIRE KITCHEN ORGANISER | 30 | 9.929375 |
| 3786 | ZINC WIRE SWEETHEART LETTER TRAY | 83 | 3.976522 |

## 6. Which Customers Contributed the Most to Total Sales?

| CustomerID | Number_of_Orders | TotalPurchases | Percent_of_TotalSales |
|---|---|---|---|
| 14646.0 | 74 | £278,466 | 2.80% |
| 18102.0 | 62 | £256,438 | 2.58% |
| 17450.0 | 51 | £188,421 | 1.90% |
| 14911.0 | 247 | £132,573 | 1.33% |
| 12415.0 | 24 | £123,638 | 1.24% |
| 14156.0 | 66 | £113,384 | 1.14% |
| 17511.0 | 45 | £88,128 | 0.89% |
| 16684.0 | 31 | £65,892 | 0.66% |
| 14096.0 | 18 | £65,054 | 0.66% |
| 13694.0 | 60 | £62,653 | 0.63% |
| 15311.0 | 118 | £59,419 | 0.60% |
| 13089.0 | 118 | £57,386 | 0.58% |
| 15061.0 | 55 | £54,229 | 0.55% |
| 17949.0 | 52 | £52,751 | 0.53% |
| 15769.0 | 29 | £51,824 | 0.52% |