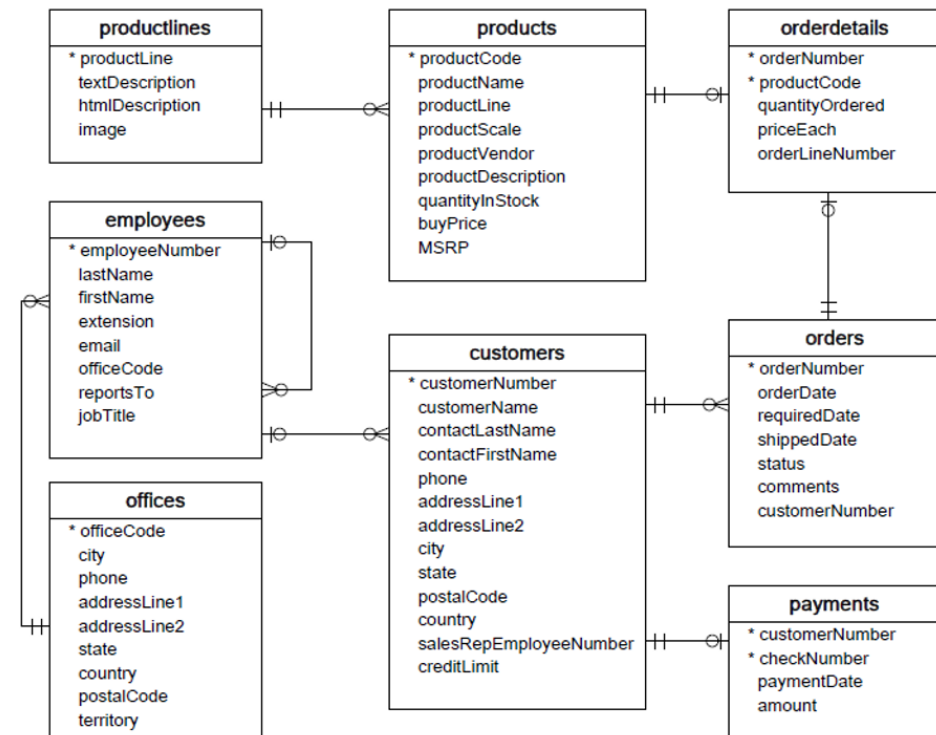


# PROJECT : Toys and Co

A selling models and scale models company provides us her database that lists employees, products, orders, and much more. The company director commissioned us to have a dashboard which he could refresh each morning. He wishes to have the latest information in order to manage the company.

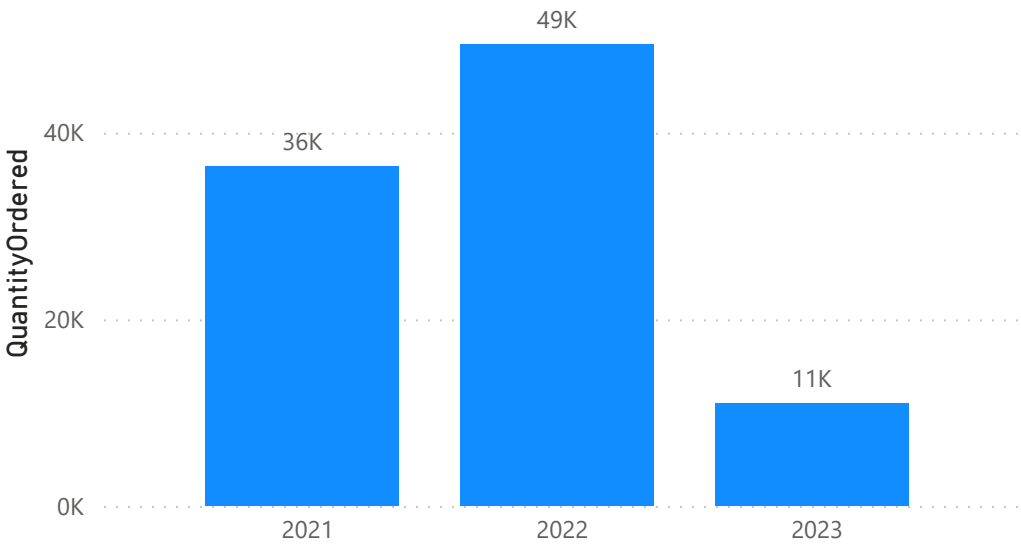
*This is a proposition focused on ordered quantities made on POWER BI*



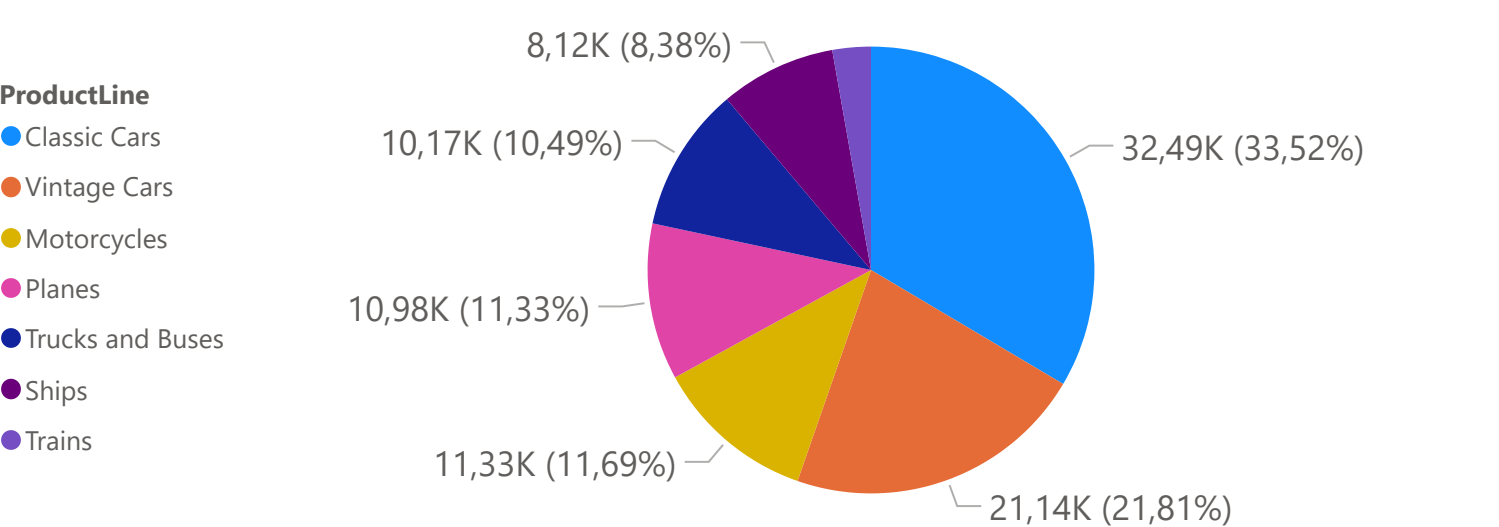
source : <https://www.mysqltutorial.org> for the schema, and lots of modifications for datas

# QUANTITY ORDERED BY YEAR AND CATEGORY

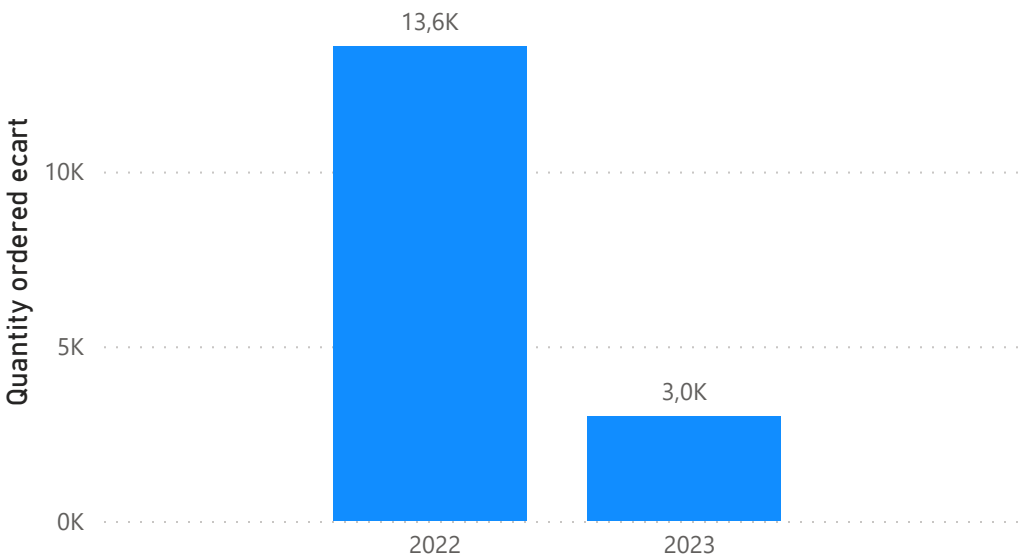
Quantity ordered by year



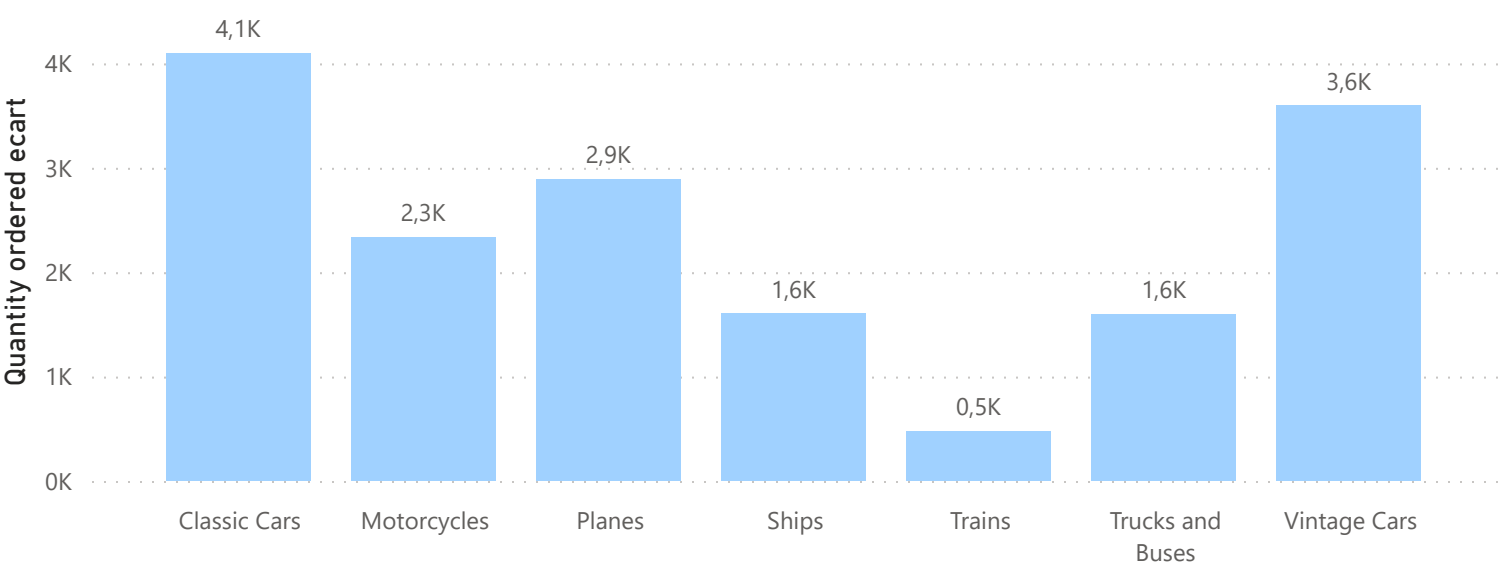
Product line quantity ordered



Growth vs YA



Product line growth vs 2021



# QUANTITY ORDERED - PRODUCT LINE AND YEAR DETAIL

yea... ▾

■ Sele...

■ (Bla...

■ 2021

■ 2022

■ 2023

mont... ▾

■ Select ...

■ 01

■ 02

■ 03

■ 04

■ 05

■ 06

■ 07

■ 08

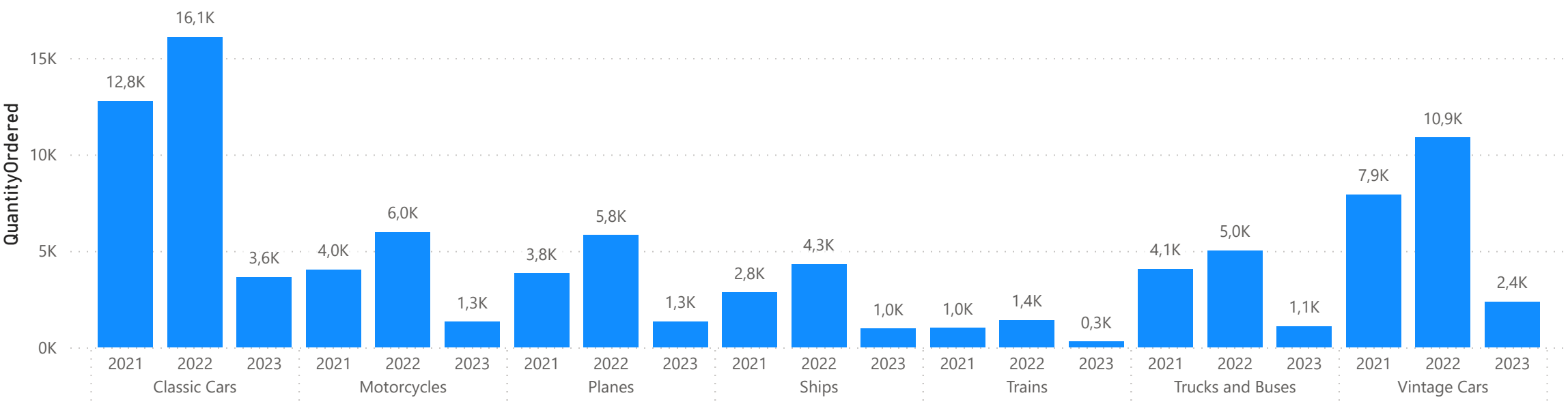
■ 09

■ 10

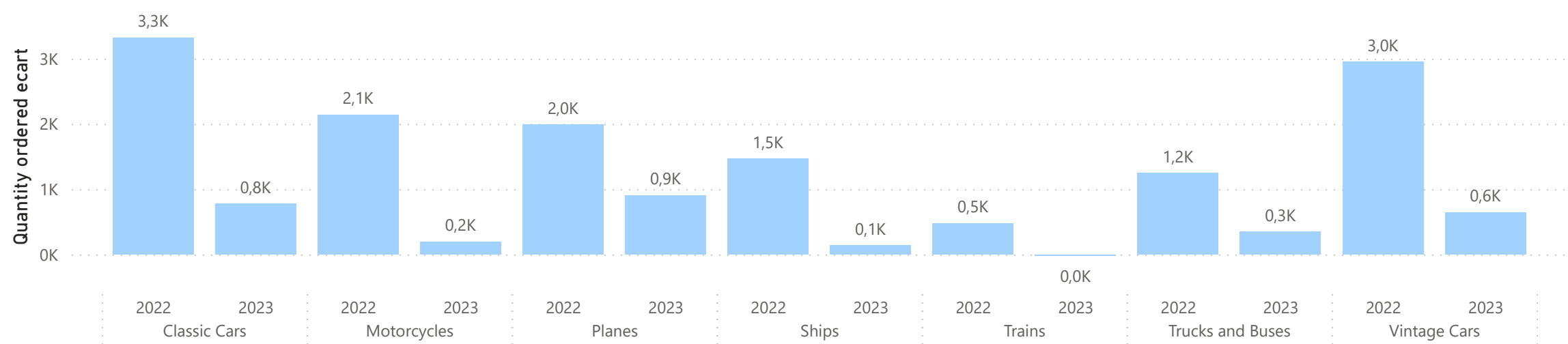
■ 11

■ 12

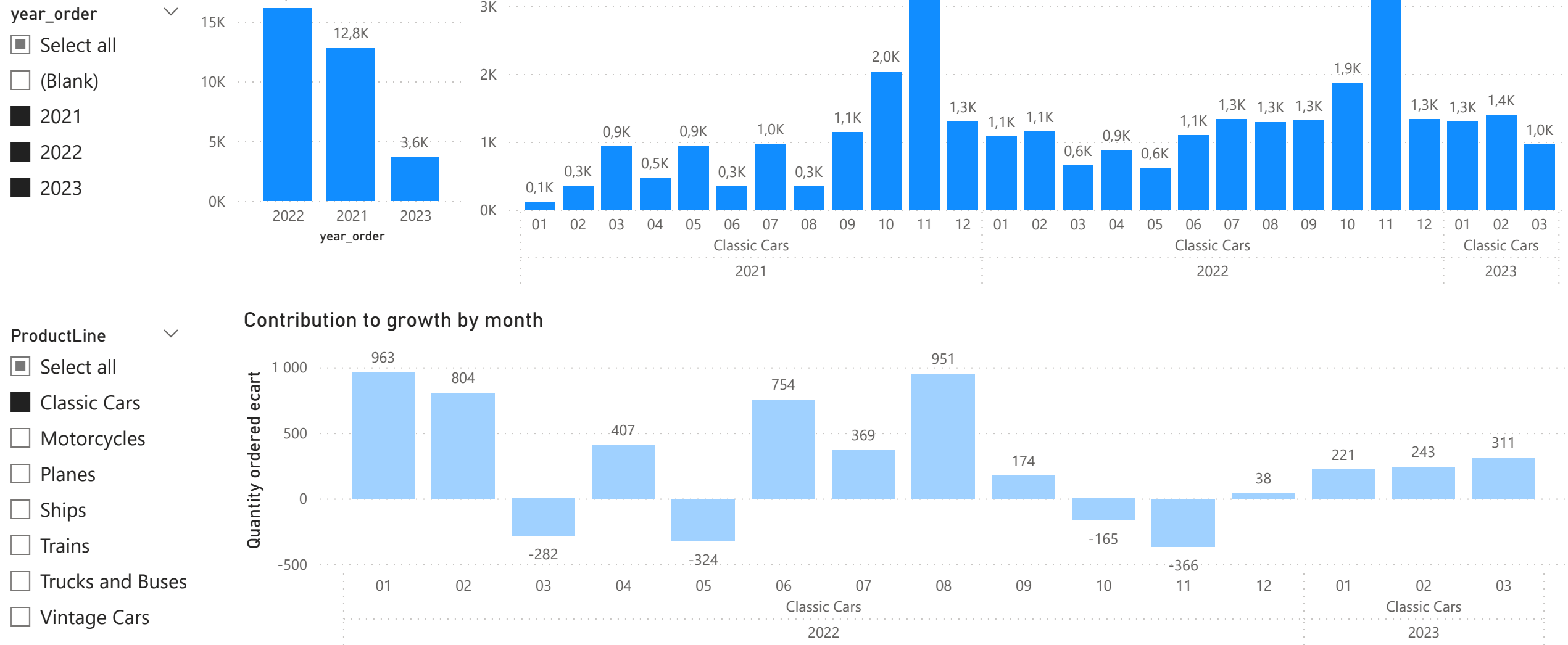
Quantity ordered by product line by year



Contribution to growth by product line by year



# QUANTITY ORDERED - PRODUCT LINE AND MONTH DETAIL (1)



# QUANTITY ORDERED - PRODUCT LINE AND MONTH DETAIL (2)

year\_order

Select all

2021

2022

2023

month\_order

Select all

(Blank)

01

02

03

04

05

06

07

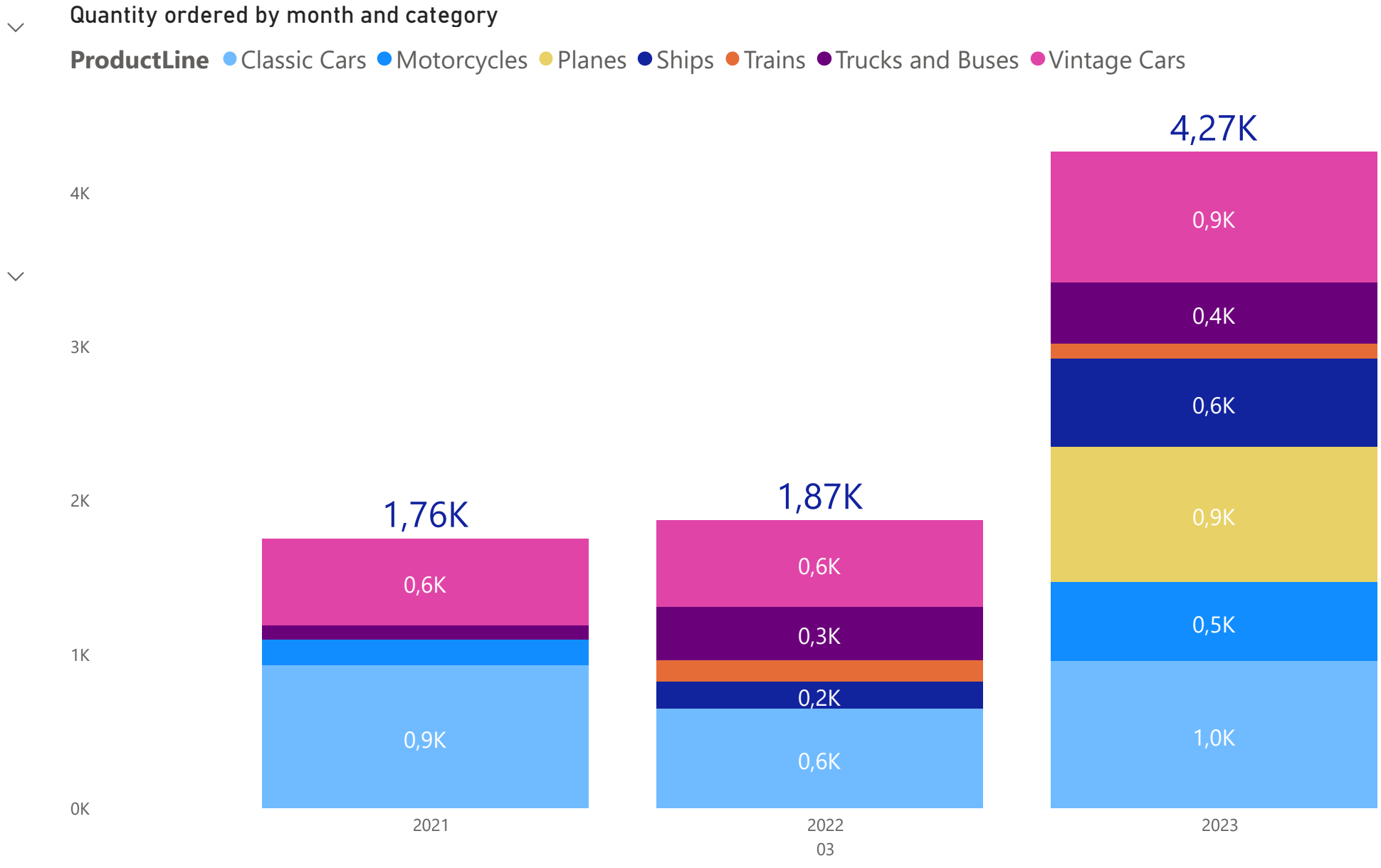
08

09

10

11

12



# QUANTITY ORDERED - COUNTRY DETAIL

year\_order

Select all

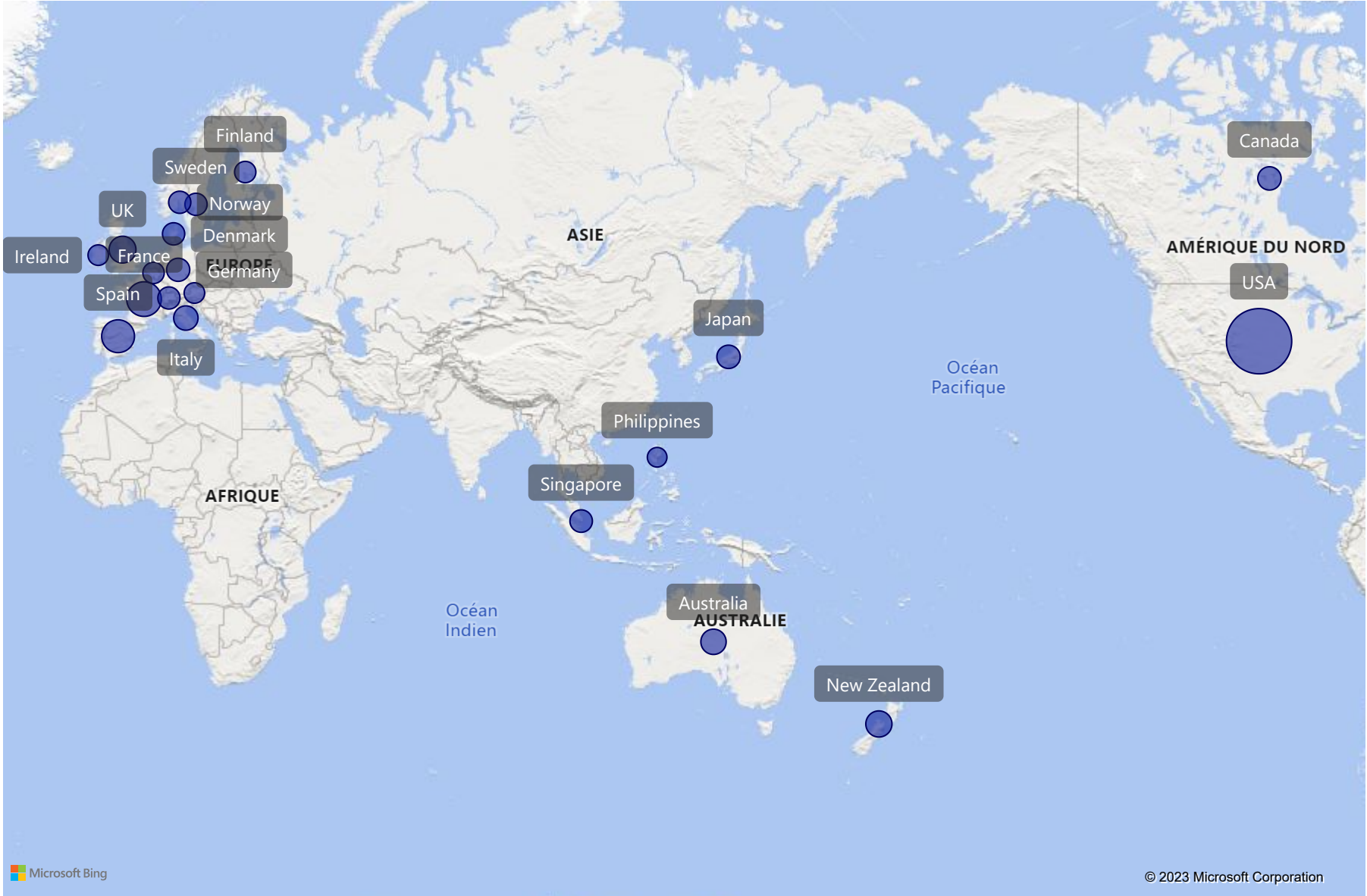
(Blank)

2021

2022

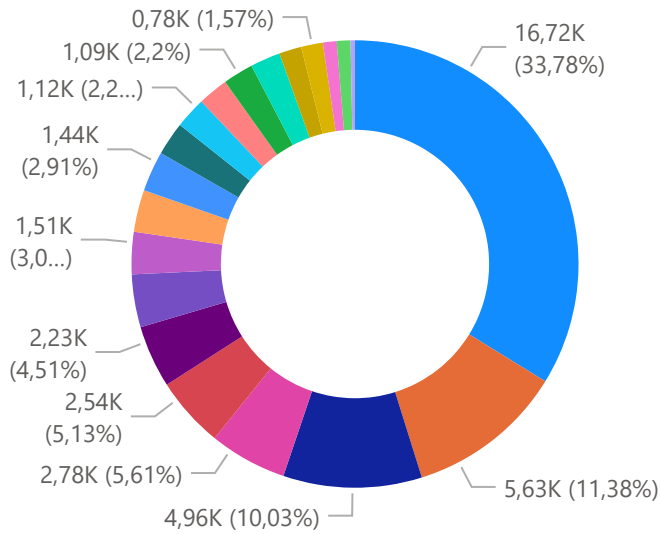
2023

Quantity ordered by country



Market shares by country

country cus... USA France Spain UK



20

Count of country customer

USA

First country by quantity ordered

QUANTITY ORDERED - DASHBOARD

country customer

Select all

(Blank)

Australia

Austria

Belgium

Canada

Denmark

Finland

France

Germany

Hong Kong

Ireland

Italy

Japan

New Zealand

Norway

Philippines

Singapore

Spain

Sweden

Switzerland

year_order	Classic Cars	Motorcycles	Planes	Ships	Trains	Trucks and Buses	Vintage Cars	Total
<div>2021</div>	12 762,00	4 031,00	3 833,00	2 844,00	1 000,00	4 056,00	7 913,00	36 439,00
01	110,00					232,00	572,00	914,00
02	344,00	229,00	460,00	301,00	119,00	138,00	301,00	1 892,00
03	929,00	170,00				93,00	563,00	1 755,00
04	465,00		166,00	323,00	69,00	279,00	166,00	1 468,00
05	934,00	463,00	235,00			248,00	662,00	2 542,00
06	338,00	23,00	416,00	319,00	116,00	160,00	313,00	1 685,00
07	961,00	408,00				257,00	519,00	2 145,00
08	339,00	440,00	371,00	318,00	106,00	136,00	264,00	1 974,00
09	1 139,00	47,00		234,00	93,00	410,00	587,00	2 510,00
10	2 032,00	661,00	879,00	428,00	132,00	456,00	1 143,00	5 731,00
11	3 879,00	1 163,00	1 081,00	921,00	320,00	1 238,00	2 260,00	10 862,00
12	1 292,00	427,00	225,00		45,00	409,00	563,00	2 961,00
<div>2022</div>	16 085,00	5 976,00	5 820,00	4 309,00	1 409,00	5 024,00	10 864,00	49 487,00
01	1 073,00	460,00	413,00	332,00	78,00	46,00	843,00	3 245,00
02	1 148,00	493,00	424,00	319,00	73,00	346,00	314,00	3 117,00
03	647,00			179,00	137,00	348,00	562,00	1 873,00
04	872,00	361,00	408,00	142,00			452,00	2 235,00
05	610,00	536,00	424,00	305,00	131,00	353,00	630,00	2 989,00
06	1 092,00		311,00	327,00	77,00	414,00	863,00	3 084,00
07	1 330,00	707,00	538,00	267,00	135,00	380,00	883,00	4 240,00
08	1 290,00	675,00	384,00	311,00	109,00	351,00	849,00	3 969,00
09	1 313,00	129,00	360,00	286,00	88,00	415,00	793,00	3 384,00
10	1 867,00	728,00	390,00	345,00	216,00	750,00	1 325,00	5 621,00
11	3 513,00	1 403,00	1 325,00	931,00	177,00	886,00	2 106,00	10 341,00
12	1 330,00	484,00	843,00	565,00	188,00	735,00	1 244,00	5 389,00
<div>2023</div>	3 643,00	1 319,00	1 328,00	967,00	286,00	1 089,00	2 363,00	10 995,00
01	1 294,00	377,00		81,00	79,00	337,00	622,00	2 790,00
02	1 391,00	429,00	445,00	316,00	108,00	356,00	891,00	3 936,00
03	958,00	513,00	883,00	570,00	99,00	396,00	850,00	4 269,00
Total	32 490,00	11 326,00	10 981,00	8 120,00	2 695,00	10 169,00	21 140,00	96 921,00



TURNOVER

year\_order

(Blank)

2021

2022

2023

month\_order

Select all

01

02

03

04

05

06

07

08

09

10

11

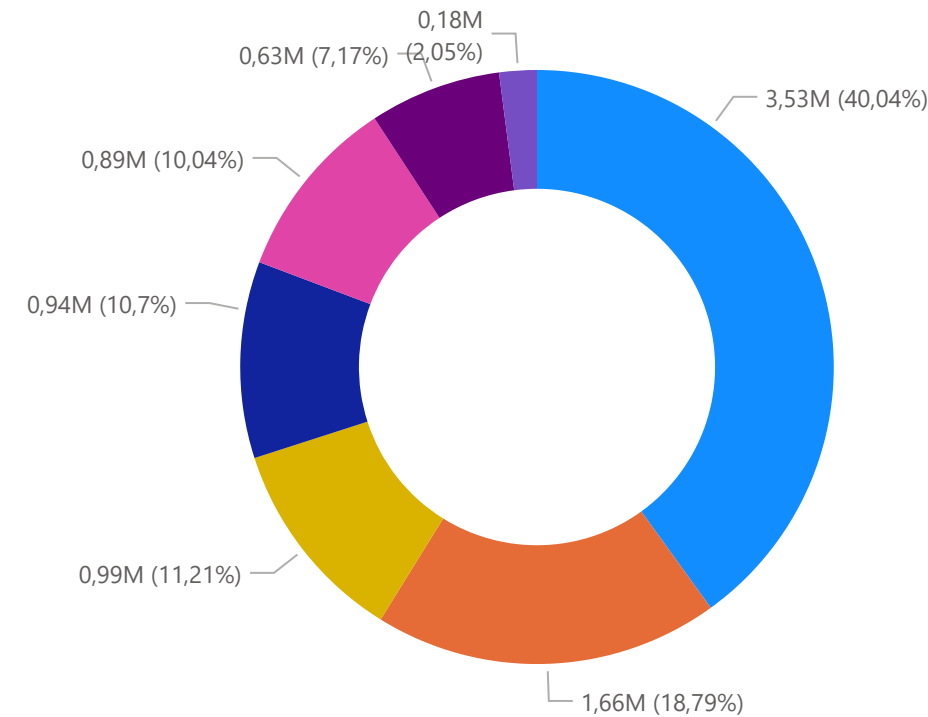
12

8,82M

Turnover

Turnover

ProductLine Classic C... Vintage C... Motorcycles Trucks a... Planes Ships



ProductLine	product_name	Sum of QuantityOrdered	Turnover
Classic Cars	1992 Ferrari 360 Spider red	1630	249 543,78
Classic Cars	2001 Ferrari Enzo	983	183 499,34
Classic Cars	1952 Alpine Renault 1300	888	175 214,17
Classic Cars	1968 Ford Mustang	857	148 876,52
Classic Cars	1969 Ford Falcon	943	148 736,58
Motorcycles	2003 Harley-Davidson Eagle Drag Bike	841	146 622,42
Planes	1980s Black Hawk Helicopter	982	137 459,93
Classic Cars	1998 Chrysler Plymouth Prowler	917	132 228,72
Classic Cars	1969 Corvair Monza	916	125 546,91
Vintage Cars	1917 Grand Touring Sedan	805	124 151,00
Classic Cars	1957 Corvette Convertible	937	121 374,95
Motorcycles	2002 Suzuki XREO	912	121 096,64
Vintage Cars	1928 Mercedes-Benz SSK	789	118 301,60
Classic Cars	1956 Porsche 356A Coupe	906	116 664,87
Classic Cars	1970 Triumph Spitfire	896	115 709,82
Classic Cars	1976 Ford Gran Torino	860	114 539,68
Classic Cars	1962 LanciaA Delta 16V	867	114 217,06
Classic Cars	1972 Alfa Romeo GTA	917	113 709,60
Classic Cars	1948 Porsche Type 356 Roadster	840	109 110,64
Trucks and Buses	1958 Setra Bus	883	108 696,89
Classic Cars	1995 Honda Civic	835	108 085,91
Ships	18th century schooner	968	107 777,10
Trucks and Buses	1964 Mercedes Tour Bus	959	106 456,82
Vintage Cars	1903 Ford Model A	842	106 264,83
Trucks and Buses	1940s Ford truck	977	105 236,61
Trucks and Buses	1962 Volkswagen Microbus	910	104 819,62
Vintage Cars	1932 Model A Ford J-Coupe	906	104 103,31



# MARGIN MASS & MARGIN RATE

year\_order

(Blank)

2021

2022

2023

Margin Mass repartition

ProductLine Classic Cars Vintage Cars Motorcycles Trucks an... Planes Ships Trains

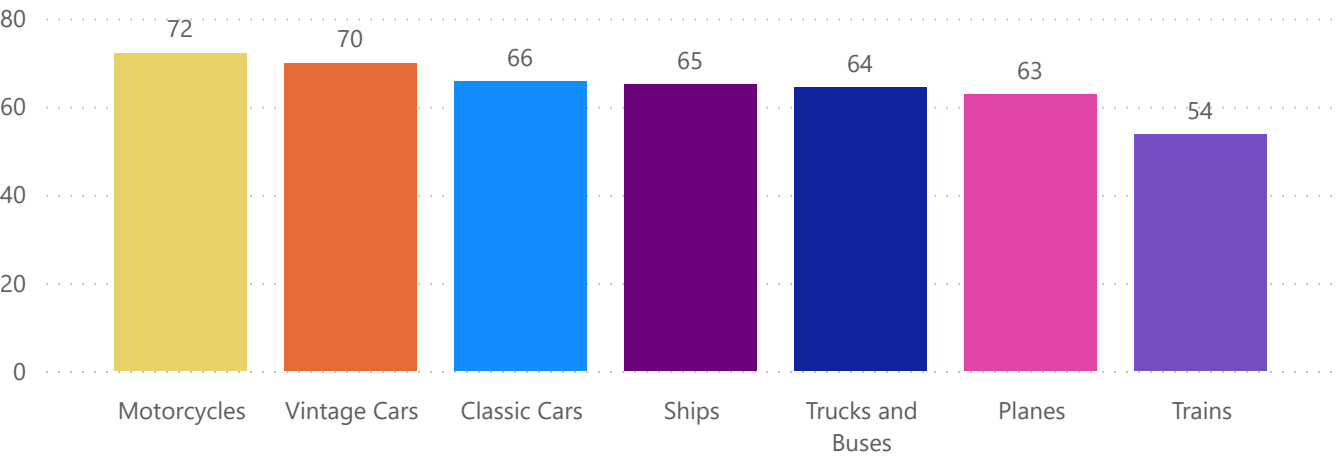
3,52M

SUM MarginMass

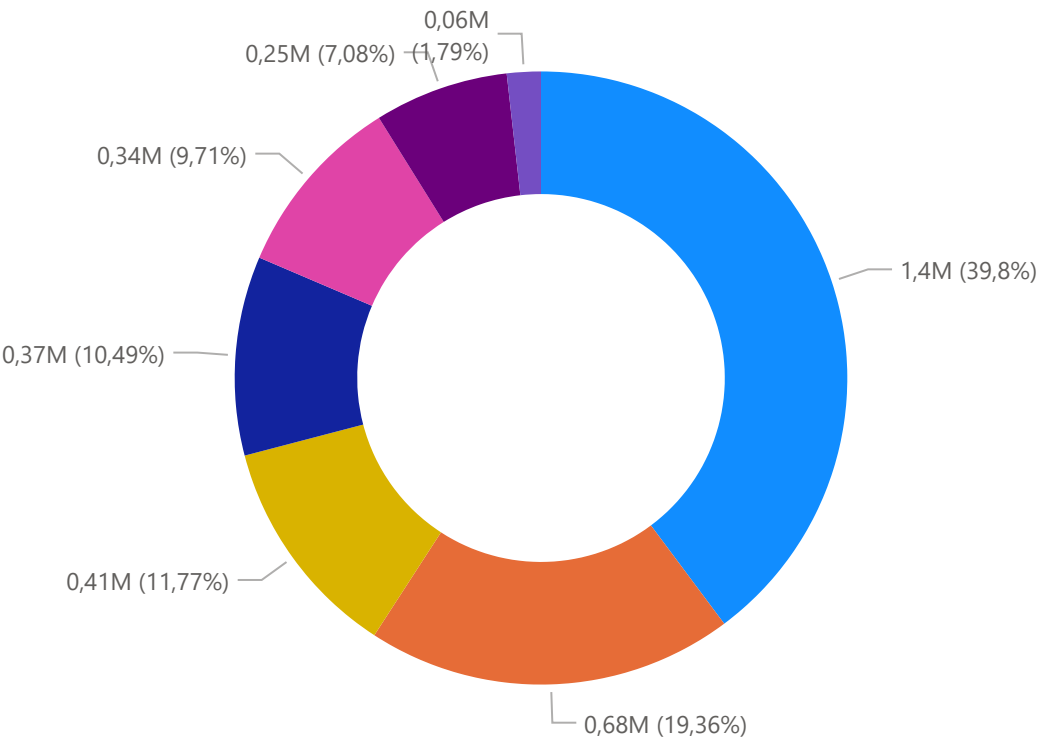
66,38

MargingRate(%)

Margin rate (%)



ProductLine	product_name	SUM MarginMass	Sum of QuantityOrdered	MargingRate (%)
Classic Cars	1961 Chevrolet Impala	36 767,64	883	128,80
Vintage Cars	1937 Horch 930V Limousine	27 701,57	828	127,21
Trucks and Buses	1926 Ford Fire Engine	29 344,07	932	126,34
Classic Cars	1970 Plymouth Hemi Cuda	30 946,00	789	122,88
Motorcycles	2002 Yamaha YZR M1	37 285,88	921	118,48
Motorcycles	1936 Harley Davidson El Knucklehead	23 169,55	824	116,05
Trains	1950's Chicago Surface Lines Streetcar	28 119,59	910	115,65
Classic Cars	1948 Porsche Type 356 Roadster	56 896,24	840	108,97
Classic Cars	1982 Lamborghini Diablo	14 930,51	850	108,16
Vintage Cars	1928 Mercedes-Benz SSK	61 051,76	789	106,64
Classic Cars	1999 Indy 500 Monte Carlo SS	45 888,48	759	106,52
Ships	HMS Bounty	34 542,39	819	105,89
Classic Cars	1958 Chevy Corvette Limited Edition	14 986,12	922	102,16
Planes	Corsair F4U ( Bird Cage)	28 872,59	969	101,56
Motorcycles	2002 Suzuki XREO	60 658,40	912	100,36



## DETAIL REQUETES (1/2) - via MySQLWorkbench

-- QUANTITES COMMANDEES PAR CATÉGORIE, PAR MOIS, PAR AN AVEC ÉVOLUTION (brut et %) vs MOIS ANNÉE PRÉCÉDENTE

```
SELECT *,
    (SUM_QuantityOrdered - SUM_QuantityOrdered_YA) as Ecartbrut_Quantity_Ordered,
    (((SUM_QuantityOrdered - SUM_QuantityOrdered_YA)/SUM_QuantityOrdered_YA)*100) as Ecartpercent_Quantity_Ordered
FROM
    (SELECT *,
        LAG(SUM_QuantityOrdered,1,0)
        OVER (PARTITION BY ProductLine, month_order ORDER BY ProductLine, year_order ASC) as SUM_QuantityOrdered_YA
    FROM (
        SELECT products.productLine AS ProductLine,
        DATE_FORMAT(orders.orderDate, "%Y") as year_order,
        DATE_FORMAT(orders.orderDate, "%m") as month_order,
        SUM(orderdetails.quantityOrdered) as SUM_QuantityOrdered
        FROM products
        LEFT JOIN orderdetails ON products.productCode = orderdetails.productCode
        LEFT JOIN orders ON orderdetails.orderNumber = orders.orderNumber
        LEFT JOIN payments ON orders.customerNumber = payments.customerNumber
        GROUP BY year_order, month_order, ProductLine
        ORDER BY ProductLine, year_order, month_order) as infos_table_1
    ORDER BY ProductLine, year_order, month_order) as infos_table_2 ;
```

## DETAIL REQUETES (2/2) - via MySQLWorkbench

### -- QUANTITES COMMANDEES PAR CATÉGORIE, PAR MOIS, PAR AN, PAR PAYS

```
SELECT
    products.productLine AS ProductLine,
    DATE_FORMAT(orders.orderDate, "%Y") as year_order,
    DATE_FORMAT(orders.orderDate, "%m") as month_order,
    SUM(orderdetails.quantityOrdered) as SUM_QuantityOrdered,
    customers.country as country_customer
FROM products
LEFT JOIN orderdetails ON products.productCode = orderdetails.productCode
LEFT JOIN orders ON orderdetails.orderNumber = orders.orderNumber
LEFT JOIN customers ON orders.customerNumber = customers.customerNumber
GROUP BY ProductLine, year_order, month_order, country_customer
ORDER BY year_order, month_order ;
```

### -- QUANTITES COMMANDEES PAR PRODUIT ET CATÉGORIE AVEC PRIX ACHAT, PRIX VENTE, MOIS ET ANNÉES

```
SELECT
    products.productLine AS ProductLine,
    products.productName as product_name,
    DATE_FORMAT(orders.orderDate, "%Y") as year_order,
    DATE_FORMAT(orders.orderDate, "%m") as month_order,
    orderdetails.quantityOrdered as QuantityOrdered,
    products.buyPrice as buy_price,
    products.MSRP as recommended_product_price,
    orderdetails.priceEach as product_price
FROM products
LEFT JOIN orderdetails ON products.productCode = orderdetails.productCode
LEFT JOIN orders ON orderdetails.orderNumber = orders.orderNumber
ORDER BY year_order, month_order, ProductLine, product_name
;
```