

3.1

```
SELECT NON EMPTY
ORDER ([Product.ProductCategory].[TopCategory].members,
      [measures].[Profit],
      BDESC) ON COLUMNS,
[measures].[Profit] ON ROWS
FROM [bike_sales]
WHERE [OrderDate.Days].[2021]
```

```
Axis #0:
{ [OrderDate.Days].[2021] }
Axis #1:
{ ([Product.ProductCategory].[Bikes])
  ([Product.ProductCategory].[Accessories])
  ([Product.ProductCategory].[Clothing]) }
Axis #2:
{ [Measures].[Profit] }
Row #0: EUR3,183,670.33
Row #0: EUR217,753.85
Row #0: EUR69,062.19
```

3.2

```
SELECT NON EMPTY ORDER ([ShippedTo.Territory].[Country].members,
                        [measures].[Revenue],
                        BDESC) ON COLUMNS,
[measures].[Revenue] ON ROWS
FROM [bike_sales]
WHERE [OrderDate.Days].[2019]
```

```
Axis #0:
{ [OrderDate.Days].[2019] }
Axis #1:
{ ([ShippedTo.Territory].[Pacific].[Australia])
  ([ShippedTo.Territory].[North America].[USA])
  ([ShippedTo.Territory].[North America].[Canada])
  ([ShippedTo.Territory].[Europe].[United Kingdom])
  ([ShippedTo.Territory].[Europe].[Germany])
  ([ShippedTo.Territory].[Europe].[France]) }
Axis #2:
{ [Measures].[Revenue] }
Row #0: EUR2,124,783.18
Row #0: EUR2,023,814.61
Row #0: EUR587,476.48
Row #0: EUR582,032.74
Row #0: EUR550,070.74
Row #0: EUR522,422.20
```

3.3

Customer_Rank	Customer_Name	Profit
1	Jordan C Turner	2379.3114
2	Marco Lopez	2357.3527
3	Lacey C Zheng	2137.7282
4	Larry Munoz	2131.1552
5	Ruben Suarez	2088.7512
6	Martin Suri	2079.3738
7	Ariana D Gray	2056.1764
8	Ricky M Navarro	2047.9379
9	Kelvin A Carson	2047.2475
10	Lawrence M Sanz	2042.1645

3.4

Region	Customer_Name	Quantity_Sold	Customer_Rank
Europe	April L Shan	58	1
Europe	Lisa Cai	25	2
Europe	Jordan C Turner	17	3
Europe	Lacey C Zheng	17	3
Europe	Marco Lopez	17	3

3.5

Country	year	Month_Name	Shipping_Costs
United Kingdom	2020	January	195.0000
United Kingdom	2020	February	390.0000
United Kingdom	2020	March	312.0000
United Kingdom	2020	April	351.0000
United Kingdom	2020	May	332.0000
United Kingdom	2020	June	1473.0000

3.6

Product_Top_Category	Product_Sub_Category	Product_Model	Quantity_Sold
Accessories	Helmets	Sport-100	10
Accessories	Bottles and Cages	Water Bottle	3
Accessories	Tires and Tubes	Road Tire Tube	3
Bikes	Road Bikes	Road-250	25
Bikes	Mountain Bikes	Mountain-200	12
Bikes	Road Bikes	Road-650	7
Clothing	Caps	Cycling Cap	3
Clothing	Jerseys	Short-Sleeve Classic...	2
Clothing	Jerseys	Long-Sleeve Logo Jer...	1

3.7

Country	Profit
Germany	146624.7269
France	123462.5532
United Kingdom	163509.0315

3.8

CROSSJOIN
{
{[OrderDate.Days].[2021].[1] : [OrderDate.Days].[2021].[6] },
{[ShippedTo.Territory].[Country].[France],[ShippedTo.Territory].[Country].[Germany]}
} ON 0,
[measures].[TaxAmount] ON 1
FROM [bike_sales]
{}
Axis #1:
{[OrderDate.Days].[2021].[1],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[1],[ShippedTo.Territory].[Europe].[Germany]}
{[OrderDate.Days].[2021].[2],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[2],[ShippedTo.Territory].[Europe].[Germany]}
{[OrderDate.Days].[2021].[3],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[3],[ShippedTo.Territory].[Europe].[Germany]}
{[OrderDate.Days].[2021].[4],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[4],[ShippedTo.Territory].[Europe].[Germany]}
{[OrderDate.Days].[2021].[5],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[5],[ShippedTo.Territory].[Europe].[Germany]}
{[OrderDate.Days].[2021].[6],[ShippedTo.Territory].[Europe].[France]}
{[OrderDate.Days].[2021].[6],[ShippedTo.Territory].[Europe].[Germany]}
Axis #2:
{[Measures].[TaxAmount]}
Row #0: EUR28,179.94
Row #0: EUR16,455.83
Row #0: EUR19,852.65
Row #0: EUR17,006.64
Row #0: EUR29,396.27
Row #0: EUR21,615.93
Row #0: EUR25,516.98
Row #0: EUR21,735.85
Row #0: EUR33,606.18
Row #0: EUR23,530.64
Row #0: EUR563.21
Row #0: EUR380.12