

Queries

December 12, 2021

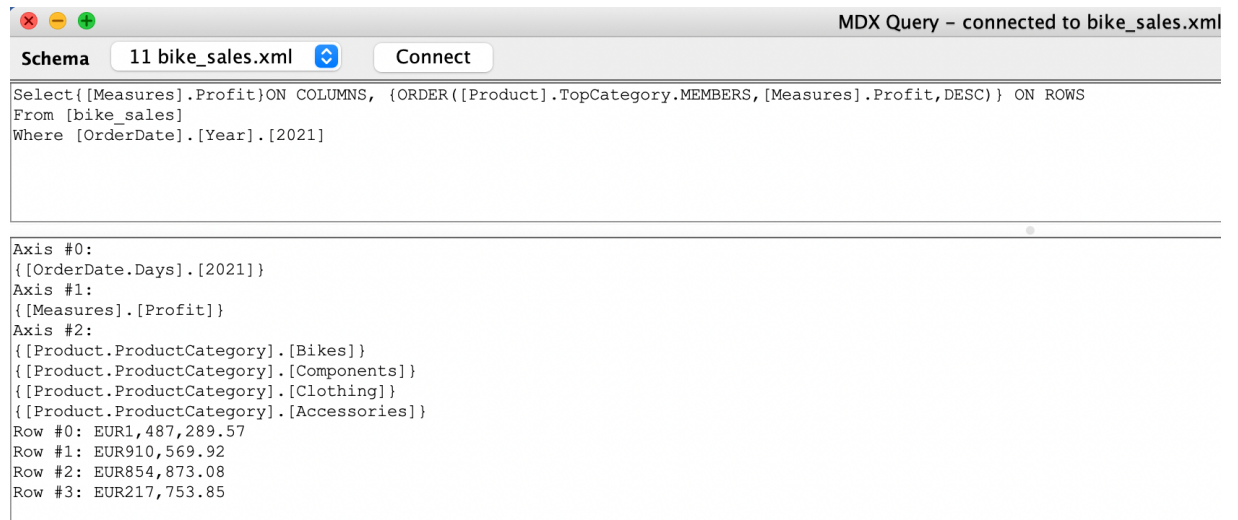


Figure 1: Query 1, MDX

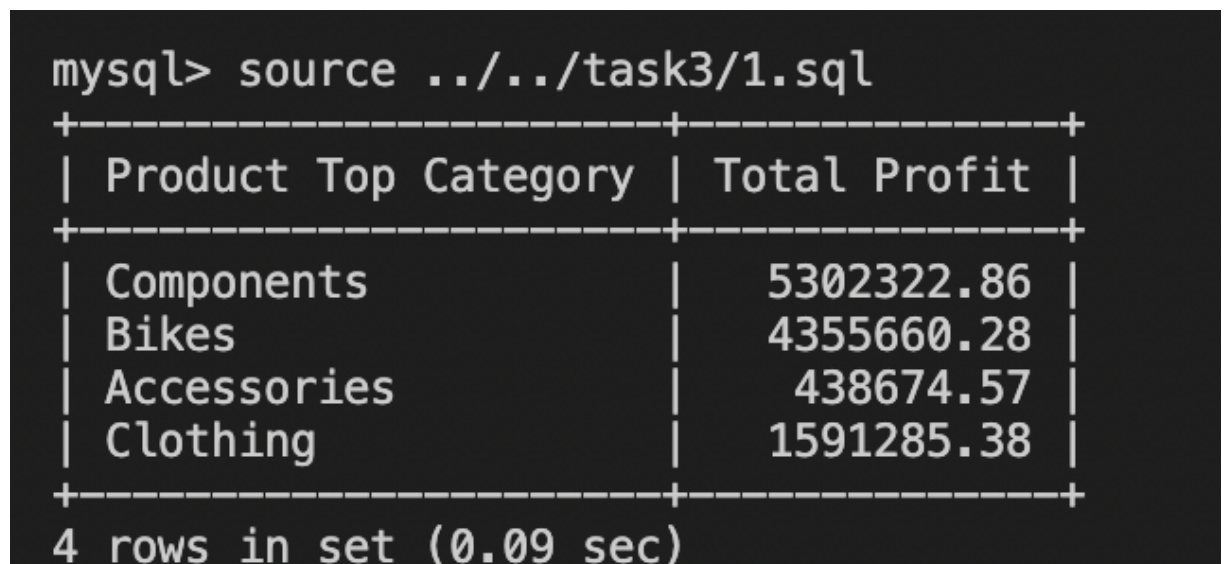


Figure 2: Query 1, SQL

```
Axis #0:
{ [OrderDate.Days].[2019] }
Axis #1:
{ [Measures].[Revenue] }
Axis #2:
{ [Shippedto.Territory].[North America].[USA] }
{ [Shippedto.Territory].[North America].[Canada] }
{ [Shippedto.Territory].[Pacific].[Australia] }
{ [Shippedto.Territory].[Europe].[United Kingdom] }
{ [Shippedto.Territory].[Europe].[Germany] }
{ [Shippedto.Territory].[Europe].[France] }
Row #0: 2,023,814.623
Row #1: 587,476.483
Row #2: 2,124,783.196
Row #3: 582,032.739
Row #4: 550,070.741
Row #5: 522,422.206
```

Figure 3: Query 2, MDX

```
mysql> source 3_3.sql
```

Rank	Customer Name	Profit
1	JordanCTurner	2379.311583042145
2	MarcoLopez	2357.352895259857
3	LaceyCZheng	2137.728389263153
4	LarryMunoz	2131.155387401581
5	RubenSuarez	2088.751283288002
6	MartinSuri	2079.373883843422
7	ArianaDGray	2056.176598072052
8	RickyMNavarro	2047.9379706382751
9	KelvinACarson	2047.2475862503052
10	LawrenceMSanz	2042.164566040039

Figure 4: Query 3, SQL

```
mysql> source 4.sql
```

Region	Name	Quantity	Rank
Europe	AprilLShan	58	1
Europe	LisaCai	25	2
Europe	JordanCTurner	17	3
Europe	LaceyCZheng	17	4
Europe	MarcoLopez	17	5
Europe	DominiqueLPrasad	16	6
Europe	RosaKHu	15	7
Europe	ArianaDGray	15	8
Europe	KaitlynJHenderson	14	9
Europe	Margarethe	14	10

```
10 rows in set (0.07 sec)
```

Figure 5: Query 4, SQL

```
mysql> source ../olap_cube/5.sql
```

Country	Year	Month	Shipping_Costs
United Kingdom	2020	January	39
United Kingdom	2020	February	26
United Kingdom	2020	March	22
United Kingdom	2020	April	44
United Kingdom	2020	May	26
United Kingdom	2020	June	51
United Kingdom	2020	July	26
United Kingdom	2020	August	39
United Kingdom	2020	September	3
United Kingdom	2020	October	22
United Kingdom	2020	November	22
United Kingdom	2020	December	22

```
12 rows in set (0.02 sec)
```

Figure 6: Query 5, SQL

```

Axis #0:
{ [ShippingType.ShipMethodName].[Cargo International]}
Axis #1:
{ [Measures].[ShippingCost]}
Axis #2:
{ [OrderDate.Days].[2020].[1]}
{ [OrderDate.Days].[2020].[2]}
{ [OrderDate.Days].[2020].[3]}
{ [OrderDate.Days].[2020].[4]}
{ [OrderDate.Days].[2020].[5]}
{ [OrderDate.Days].[2020].[6]}
Axis #3:
{ [Shippedto.Territory].[Europe].[United Kingdom]}
Row #0: 143
Row #1: 286
Row #2: 234
Row #3: 247
Row #4: 254
Row #5: 1,232

```

Figure 7: Query 5, MDX

Product Top Category	Product Sub Category	Product Model	Quantity Sold
Accessories	Helmets	Sport-100	6440
Accessories	Bottles and Cages	Water Bottle	4244
Accessories	Tires and Tubes	Patch kit	3191
Bikes	Mountain Bikes	Mountain-200	3552
Bikes	Mountain Bikes	Mountain-400-W	543
Bikes	Mountain Bikes	Mountain-500	479
Clothing	Caps	Cycling Cap	2190
Clothing	Jerseys	Long-Sleeve Logo Jersey	1736
Clothing	Jerseys	Short-Sleeve Classic Jersey	1596
Components	Handlebars	Road-250	1903
Components	Handlebars	Road-150	1551
Components	Handlebars	Road-750	1443

12 rows in set (0.12 sec)

Figure 8: Query 6, SQL

```
mysql> source 7.sql
```

Country	Profit
USA	415614.1950683594
Australia	343058.69342041016
United Kingdom	163509.03076171875
Germany	146624.72528076172
France	123462.55236816406
Canada	76748.25463867188

```
6 rows in set (0.03 sec)
```

Figure 9: Query 7, SQL

Month	Country	TaxRate
April	France	25516.981754779816
April	Germany	21735.847284436226
February	France	19852.64630651474
February	Germany	17006.643596827984
January	France	28179.940098166466
January	Germany	16455.828444570303
June	France	563.211711525917
June	Germany	380.1159955859184
March	France	29396.269667625427
March	Germany	21615.9340929389
May	France	33606.185564637184
May	Germany	23530.63693228364

12 rows in set (0.07 sec)

Figure 10: Query 8, SQL