

62_Nguyen Ngo Thuong_mdx

1. total sales của thầy

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
where [Time].[Order Year].[2010]

//1. total sales của thầy
select [Measures].[Sales] on columns
from [Sale OLAP]
```

The Results pane shows a single row of data:

Messages	Results
Sales	12642501.9098804

The status bar at the bottom indicates "Query executed successfully."

2. Total Sales by Country

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL code:

```
where [Time].[Order Year].[2010]

//1. total sales của thầy
select [Measures].[Sales] on columns
from [Sale OLAP]

//2. Total Sales by Country
SELECT [Measures].[Sales] ON COLUMNS,
[Location].[Country].[Country] ON ROWS
FROM [Sale OLAP]
```

The Results pane shows a list of countries and their corresponding sales values:

Messages	Results
Sales	
Algeria	21873.32
Albania	3888.12
Algeria	36091.59
Angola	25554
Argentina	37511.78238
Armenia	156.75
Australia	825235.852999999
Austria	82539.0500000001
Azerbaijan	9631.51
Bahrain	669.18
Bangladesh	78296.47
Barbados	7174.27382
Belarus	13266.09
Belgium	49226.7
Belize	75.12
Benin	6212.07
Bhutan	164.07
Bolivia	11588.87
Bosnia and Herzegovina	2599.26
Botswana	617.46
Brazil	359924.85896
Bulgaria	14825.73
Burkina Faso	3554.13

The status bar at the bottom indicates "Query executed successfully."

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the 'Sales_Olap' cube structure. The main query editor contains two MDX queries. The first query, labeled '//2. Total Sales by Country', is highlighted with a red box. The second query, labeled '//2a. Total Sales of Vietnam', is also highlighted with a red box. The Results pane at the bottom shows the output of the second query, which is a single value: 65210.0658.

```
//2. Total Sales by Country
SELECT [Measures].[Sales] ON COLUMNS,
[Location].[Country].[Country] ON ROWS
FROM [Sale OLAP]

//2a. Total Sales of Vietnam
SELECT [Measures].[Sales] ON COLUMNS,
[Location].[Country].[Country].[Vietnam] ON ROWS
FROM [Sale OLAP]
```

Results:

Sales
65210.0658

2b. Total Sales of Vietnam

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the 'Sales_Olap' cube structure. The main query editor contains two MDX queries. The first query, labeled '//2b. Total Sales of Vietnam', is highlighted with a blue box. The second query, labeled '//3. Total Sales by Year', is also highlighted with a blue box. The Results pane at the bottom shows the output of the first query, which is a single value: 65210.0658.

```
//2b. Total Sales of Vietnam
SELECT [Measures].[Sales] ON COLUMNS
FROM [Sale OLAP]
WHERE [Location].[Country].[Country].[Vietnam];

//3. Total Sales by Year
SELECT [Measures].[Sales] ON COLUMNS,
[Dim_Time].[Order Year].[Order Year] ON ROWS
FROM [Sale OLAP Full];
```

Results:

Sales
65210.0658

3. Total Sales by Year

Search Model

Measure Group: <All>

- Sale OLAP
 - Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```

WHERE [Location].[Country].[Country].[Vietnam],

//3. Total Sales by Year
SELECT [Measures].[Sales] ON COLUMNS,
[Time].[Order Year].[Order Year] ON ROWS
FROM [Sale OLAP];

//4. Total Sales by Year (skip null value)
SELECT [Measures].[Sales] ON COLUMNS,
NONEMPTY([Dim_Time].[Order Year].[Order Year]) ON ROWS
FROM [Sale OLAP Full];

//5. Total Sales by Year of Vietnam
SELECT [Measures].[Sales] ON COLUMNS,

```

161 %

Messages Results

	Sales
2014	2259450.89553999
2015	2677438.69439997
2016	3405746.44937998
2017	4299865.87055999
Unknown	(null)

4. Total Sales by Year (skip null value)

<All>

- Sale OLAP
 - Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```

//3. Total Sales by Year
SELECT [Measures].[Sales] ON COLUMNS,
[Time].[Order Year].[Order Year] ON ROWS
FROM [Sale OLAP];

//4. Total Sales by Year (skip null value)
SELECT [Measures].[Sales] ON COLUMNS,
NON EMPTY([Time].[Order Year].[Order Year]) ON ROWS
FROM [Sale OLAP];

//5. Total Sales by Year of Vietnam
SELECT [Measures].[Sales] ON COLUMNS,

```

161 %

Messages Results

	Sales
2014	2259450.89553999
2015	2677438.69439997
2016	3405746.44937998
2017	4299865.87055999

5. Total Sales by Year of Vietnam

Measure Group:
[All>

- Sale OLAP
 - Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```
//5. Total Sales by Year of Vietnam
SELECT [Measures].[Sales] ON COLUMNS,
NON EMPTY([Time].[Order Year].[Order Year]) ON ROWS
FROM [Sale OLAP]
WHERE [Location].[Country].[Country].[Vietnam];

//6. Total Sales and Profit by Year (skip nullvalue)
SELECT {[Measures].[Sales], [Profit]} ON COLUMNS,
NONEMPTY([Dim_Time].[Order Year].[Order Year]) ON ROWSs
FROM [Sale OLAP Full];
```

161 %

Messages Results

	Sales
2014	12856.6923
2015	14585.6076
2016	19111.0356
2017	18656.7303

6. Total Sales and Profit by Year (skip nullvalue)

Measure Group:
[All>

- Sale OLAP
 - Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```
WHERE [Location].[Country].[Country].[Vietnam];

//6. Total Sales and Profit by Year (skip nullvalue)
SELECT {[Measures].[Sales], [Profit]} ON COLUMNS,
NON EMPTY([Time].[Order Year].[Order Year]) ON ROWS
FROM [Sale OLAP];

//7. Total Sale by Year and Sub-Category
SELECT
```

161 %

Messages Results

	Sales	Profit
2014	2259450.89553999	248940.811539999
2015	2677438.69439997	307415.279099999
2016	3405746.44937998	406935.230180003
2017	4299865.87055999	504165.970459996

7. Total sale by year and subcategory

FROM [Sale OLAP];

//7. Total Sale by Year and Sub-Category

```
SELECT
    NON EMPTY([Product].[Sub Category].[Sub Category]) ON ROWS,
    NON EMPTY([Time].[Order Year].[Order Year]) ON COLUMNS
FROM [Sale OLAP]
WHERE [Measures].[Sales]
```

	2014	2015	2016	2017
Accessories	113456.0076	172397.685	209895.1623	253488.1636
Appliances	173290.2224	222882.2749	254793.3595	359569.6682
Art	64062.7641999999	82312.8692	97976.0571	127261.4634
Binders	86993.2743	93400.9958	121064.5633	160410.5603
Bookcases	259396.2858	317953.4498	376025.7999	513196.7063
Chairs	285730.9761000001	295058.1396	427514.3732	493378.2753000001
Copiers	216367.89214	327168.5988	415514.88858	550384.8937599999
Envelopes	27292.9365	37665.6075	50501.7633	53757.1823
Fasteners	15010.0466	20841.4679	22890.3369	30753.1945
Furnishings	63825.4603999999	81723.7439000000	111725.3732	127881.3904
Labels	13571.3736	15518.2708	18372.1195	25888.5121
Machines	160545.6814	159858.9511	198376.1987	260279.2359
Paper	42373.8821	50782.0113	70056.9028	78574.7312000000
Phones	337282.4802	364016.2744	453519.0045	552006.3801
Storage	205554.2262	228518.2972	309342.5994	383397.8466000001
Supplies	47565.8923	43253.5604	65814.4121	86177.2677999998
Tables	147131.4937	164086.4968	202363.5351	243460.3988

8. Tổng quan doanh số theo từng phân loại ngành hàng

--8. doanh số theo từng phân loại ngành hàng

```
Select
    {[Measures].[Orders Count],[Profit],[Sales],
    [Quantity],[Shipping Cost],[Discount]} on Columns
, non empty [Product].[Category].members on rows
from [Sale OLAP]
```

	Orders Count	Profit	Sales	Quantity	Shipping Cost	Discount
All	51290	1467457.29127998	12642501.9098804	178312	1358085.7034	7329.72799999923
Furniture	9860	285082.730199999	4110451.89629998	34892	440586.3690000001	1656.230000000002
Office Supplies	31289	518595.827899999	3787492.51349993	108244	410302.454999997	4300.96999999939
Technology	10141	663778.73318	4744557.49808007	35176	507196.679399999	1372.508000000003

9. Lợi nhuận theo danh mục sản phẩm tại europe

Cube: Sale OLAP

Metadata / Functions

Search Model

Measure Group: <All>

Sale OLAP

- Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```
--9. sort the query results lọc theo europe
Select [Measures].[Profit] on columns,
non empty order ([Product].[Category].members,[Measures].[Profit])
from [Sale OLAP]
where [Location].[Market].[Europe]
```

--phân cấp

Sum Profit, sales by category and Sub Category

Messages Results

	Profit
All	4495517235
Furniture	929051954999999
Technology	169290894
Office Supplies	187355643

Query executed successfully.

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10. Phân cấp profit theo danh mục sản phẩm

Cube: Sale OLAP

Metadata / Functions

Search Model

Measure Group: <All>

Sale OLAP

- Measures
 - Orders
 - Discount
 - Orders Count
 - Profit
 - Quantity
 - Sales
 - Shipping Cost
 - KPIs
 - Customer
 - Location
 - City
 - Country
 - Location ID
 - Market
 - Postal Code
 - Region
 - State
 - Orders
 - Product
 - Time

```
where [Location].[Market].[Europe]

--phân cấp
--10 . Sum Profit, sales by category and Sub Category
Select {[Measures].[Profit],[Sales]} on columns,
non empty [Product].[Category].[Category] * [Product].[Sub Category]
From [Sale OLAP]
```

Sum Profit, sales by category and Sub Category in Market Europe

Messages Results

	Profit	Sales
Furniture All	285082730199999	411045189529998
Furniture Bookcases	1619244195	14665722418
Furniture Chairs	1403962675	150168176419998
Furniture Furnishings	468454318999999	385155967900001
Furniture Tables	640833886999999	757041924399999
Office Supplies All	518595827899999	378749251349993
Office Supplies Appliances	1415625877	1019535525
Office Supplies Art	578298592999999	371613153900003
Office Supplies Binders	724331516000002	461869393700001
Office Supplies Envelopes	288494873	1692174396
Office Supplies Fasteners	138442889	894950459000001
Office Supplies Labels	149889237	733502760000001
Office Supplies Paper	581116534999999	2417875274
Office Supplies Storage	1084166836	1126729694
Office Supplies Supplies	225591953	2428111326
Technology All	66377873318	474455701849997
Technology Accessories	1296263062	749237018499997
Technology Copiers	25856754818	150943627328
Technology Machines	58867873	779060067099999
Technology Phones	2167170058	170682413919998

Query executed successfully.

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MDXQuery3.mdx

2.51KB

