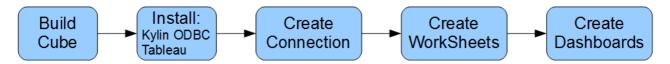
Use Tableau with Apache Kylin

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Intro

We can use <u>Quick Start with Sample Cube</u> of Kylin Project to make an example of integration with Tableau Software



Pre-requisites

The First, you need Build Kylin Cube: <u>Quick Start with Sample Cube</u>: With Step 5, you can check the result cube executing:

select part_dt, sum(price) as total_selled, count(distinct seller_id) as sellers from kylin_sales group by part_dt order by part_dt

Query results:

Results (731)

PART_DT ~	TOTAL_SELLE	SELLERS Y
2012-01-01	466.9037	12
2012-01-02	970.2347	17
2012-01-03	917.4138	14

Second, Install <u>Tableau Desktop 9.3.3</u> On windows

Used Software

- Kylin: 1.5.2
- <u>Kylin ODBC 1.5</u> (Don't use v1.3, don't work)
- Tableau Desktop 9.3.3

Create Connection

- 1. Install Kylin ODBC
- 2. Add DNS System in Windows



3. And configure: User-name /Password: ADMIN / KYLIN



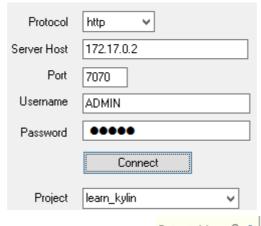
4. Click Connect and Choose the project



- 5. Click on "Done"
- 6. Download and install Tableu Desktop and launch it

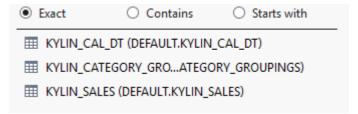


9. Complete details connections (ADMIN /KYLIN), click done, click OK:



10. Click on Select Database > defaultCatalog > Entertable... > (In magnifying glass)

The result must be, three new tables (on left panel):



NOTE: Some times this not work fine, Solution: close and open Tableau :)

11. Add this tables to Tableau: Drag and Drop to

Drag tables here

• First "Kylin_sales" (Fact Table) and second "Kylin_Cal_DT" (Dimension table)



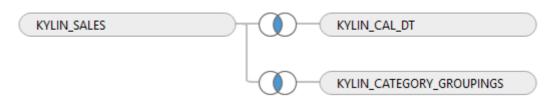
And Join Relation:

Data Source	KYLIN_CAL_DT			
Part Dt	=	Cal Dt		

Now the same whit "Kylin_Category_Groupings"

Data Source		KYLIN_CATEGORY_GROUPI
Leaf Categ Id	=	Leaf Categ Id (Kylin Cate
Lstg Site Id	=	Site Id

• The result must be:



Now if you click: Update Now

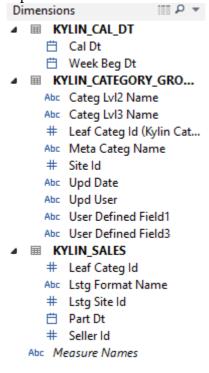
, you must see data table:

KYLIN_CAL_DT Week Beg Dt	KYLIN_CAL_DT Cal Dt	Abc KYLIN_CATEGORY_GROUPINGS User Defined Field1	Abc KYLIN_CATEGORY_GROUPINGS User Defined Field3	Abc KYLIN_CATEGORY_GRO Upd Date	Abc KYLIN_CATEGORY_GR Upd User
01/01/2012	01/01/2012	11	Collectibles	2012-09-11 20:26:	USER_Y
01/01/2012	01/01/2012	4	Business (Office & Ind	2013-04-28 20:37:	USER_Y
01/01/2012	01/01/2012	9	Apparel	2013-09-10 16:52:	USER_Y
01/01/2012	01/01/2012	9	Apparel	2013-07-16 08:23:	USER_Y
01/01/2012	01/01/2012	12	Computers	2012-05-01 08:54:	USER_Y
01/01/2012	01/01/2012	11	Collectibles	2008-06-03 13:36:	USER_Y
01/01/2012	02/01/2012	0	A1	2012 00 11 20.26.	LICED V

Intro to Sheet Elements

Go to Sheet 1: Sheet 1

You must see the Dimensions in left panel



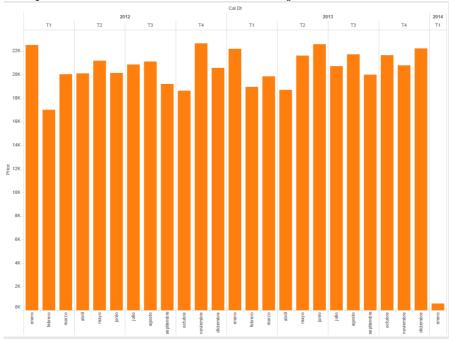
And measures:



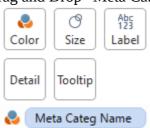
Our First WorkSheet

Drag and Drop "Cal_Dt" and "Price" like in picture:

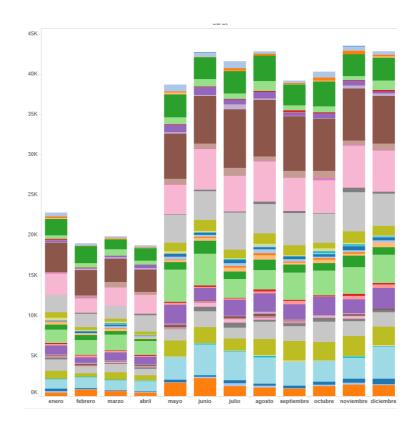
You can expand to Quarter and Months: Click on "Plus" of year:



We can add sub-totals by category: Drag and Drop "Meta Categ Name" to "Color"



The result must be similar to:



Second Worksheet

Create new Worksheet



Drag and Drop:



We can see there is a relation ships, between "Meta Categ Name", $\ L2$ and $\ L3$:

Meta Categ Name	Categ Lvl2 Name	Categ LvI3 Name		
Abbigliamento e accessori	Donna: Accessori	SciarpFoulard e Scialli		
Baby	Baby Clothing	Boys		
		Unisex		
	Nursery Decor	Night Lights		
BookMagazines		Comic Books		
	Children's Books	Children's Books		
Books	First Editions	Other		
Business & Industrial	Electrical & Test Equipment	Test Equipment		
	Heavy Equipment	Antique & Vintage Farm Equip		
	Light Equipment & Tools	Air Tools		
	Manufacturing & Metalworking	Metalworking Tooling		
	MRO & Industrial Supply	Pumps & Plumbing		
	Printing & Graphic Arts	Commercial Printing Presses		
	Retail & Services	Jewellery Packaging & Display		
		Jewelry Packaging & Display		
Cameras & Photo	Camera & Photo Accessories	LCD Hoods		
	Film Photography	Other		

Delete 3 the three fields in "Rows" and generate a hierarchy: using Dimensions Menu (Left side) Drag and Drop "Lvl2" over "Meta Categ Name" and after D & Drop "Lvl3", the result must be:

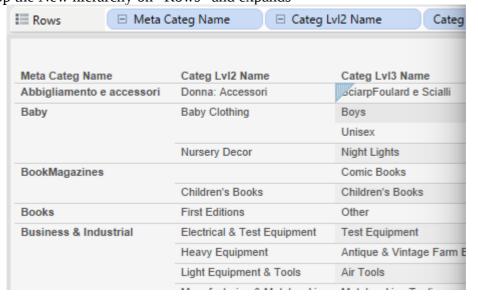
🗸 🗸 Meta Categ Name, Categ Lvl2 Name

Abc Meta Categ Name

Abc Categ Lvl2 Name

Abc Categ Lvl3 Name

Drag and Drop the New hierarchy on "Rows" and expands



Change the diagram type to table:

Drag and Drop "Price" to Rows, and see total at right of table:

Meta Categ Name	Categ LvI2 Name	
Abbigliamento e accessori	Donna: Accessori	76
Baby	Baby Clothing	1.241
	Nursery Decor	5.074

Now you can change the graph type:

Meta Categ Name

Categ Lvi2

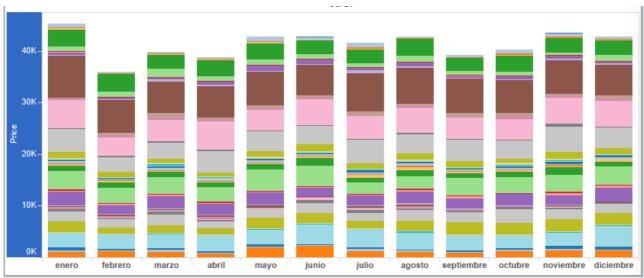


Create Dashboard

Create New Dashboard



Drag and Drop WorkSheet_1 and WorkSheet_2



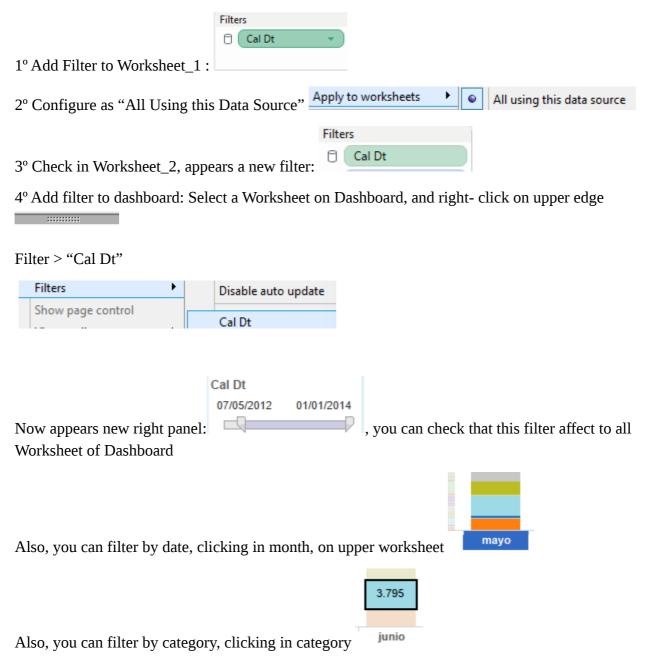
Hoja 2

Meta Categ Name Categ Lvl2 Name
Abbigliamento e accessori Donna: Accessori

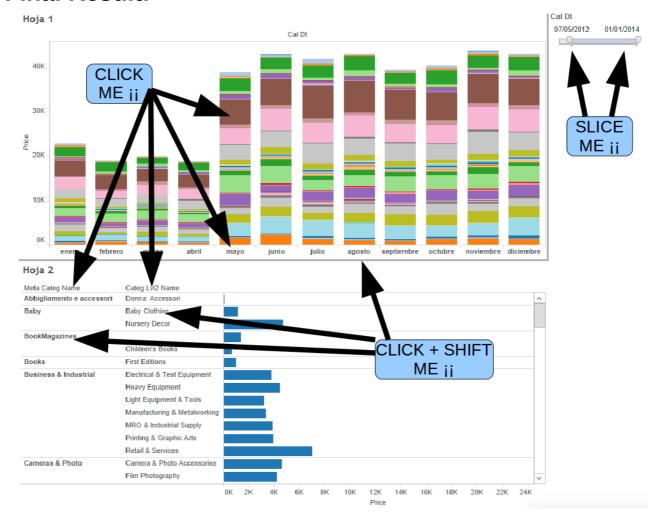
Baby Baby Clothing

Abbigliamento e accessori	Donna: Accessori							Ŀ	`
Baby	Baby Clothing								
	Nursery Decor								
BookMagazines									
	Children's Books								
Books	First Editions								
Business & Industrial	Electrical & Test Equipment								
	Heavy Equipment								
	Light Equipment & Tools								
	Manufacturing & Metalworking								
	MRO & Industrial Supply								
	Printing & Graphic Arts								
	Retail & Services								
Cameras & Photo	Camera & Photo Accessories								
	Film Photography								,
		0K	5K	10K	15K	20K	25K	30K	_
					Price				

Add filter to dashboard



Final Result:



For any suggestions, feel free to contact me Thanks, Alberto