Analytics on Sales Data mart Using Tableau Part 4

By Naheed Anjum Arafat

Tableau

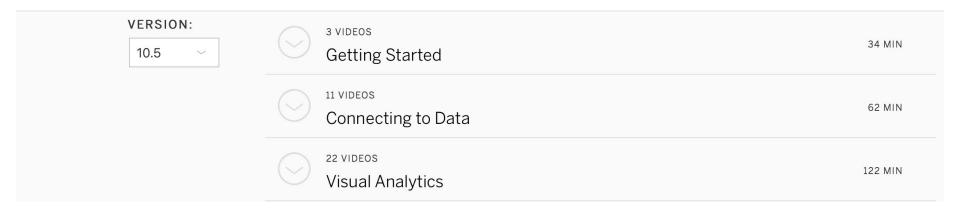
- A commercial software, flexible enough to perform visual analytics on data from numerous sources and format
 - Our purpose: Visual analytics on the star schema stored at Postgres server.
- Unfortunately, this is not a Infoviz module
- We will only touch upon the basics of-
 - Connecting to postgres
 - Join tables in tableau
 - Visualize
 - Sales and # transactions by calendar day
 - Average Transaction Value (ATV) per Calendar day of month
 - ATV per Day of a week

Resources

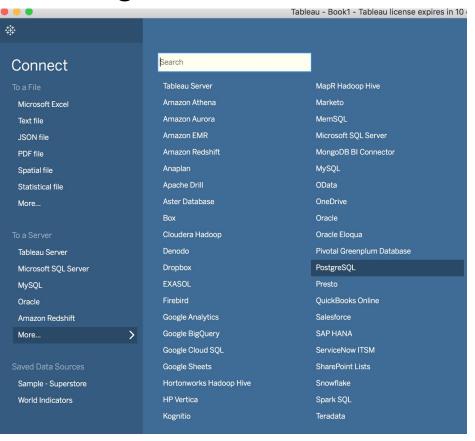
https://www.tableau.com/learn/training/archive?version=10 5

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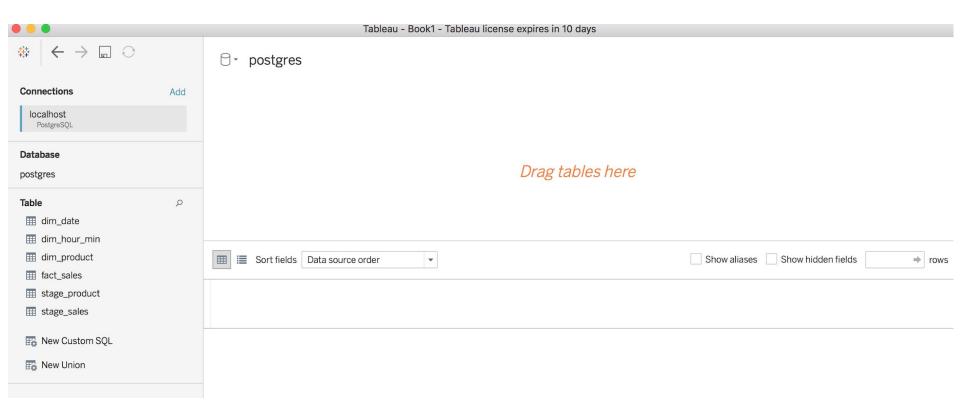
Connect to Postgres



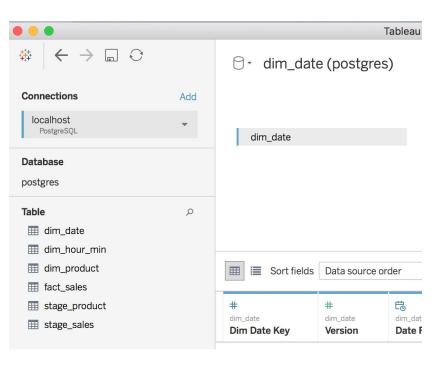
Connect to Postgres

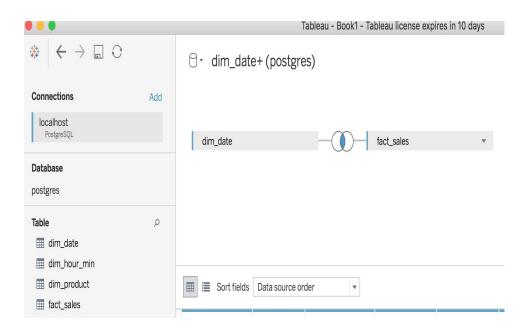
PostgreSQL								
Server: loca	lhost	Port: 5432						
Database: pos	postgres							
Enter information	to sign in to the databa	ise:						
Authentication: Username and Password								
Username:	postgres							
Password:	•							
Require SSL								
Initial SQL		Sign In						

Join dim_date and fact_sales



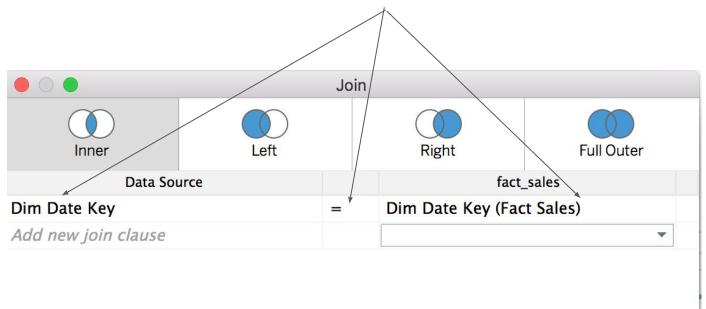
Join dim_date and fact_sales





Join dim_date and fact_sales

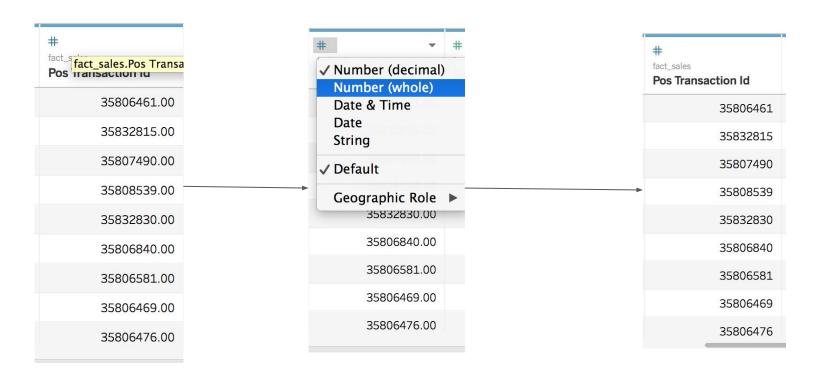
Tableau figures out the join key by itself. Join on dim_date_key



Refresh and check the fields and data types

■ Sort fields Data source order Show aliases Show hidden fields 1,000 → rows								
# dim_date Dim Date Key	# dim_date Version	dim_date Date From	dim_date Date To	Abc dim_date Date Str	# dim_date Cal Year	# dim_date Cal Month	# dim_date Cal Day Of Year	# dim_date Cal Day C
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	
1827	1	1/1/1900 12:00:00 AM	1/1/2200 12:00:00 AM	20150101	2015	1	1	

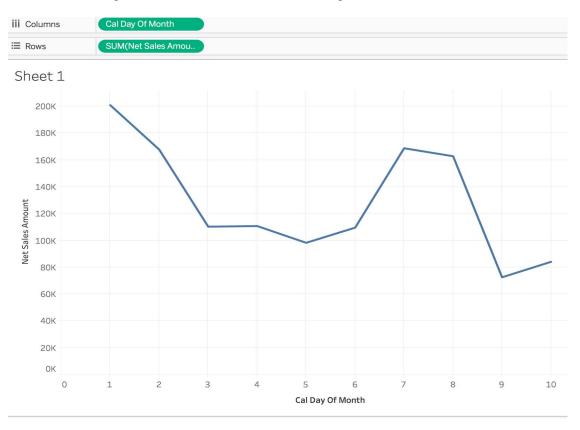
Fix some data types (If required)



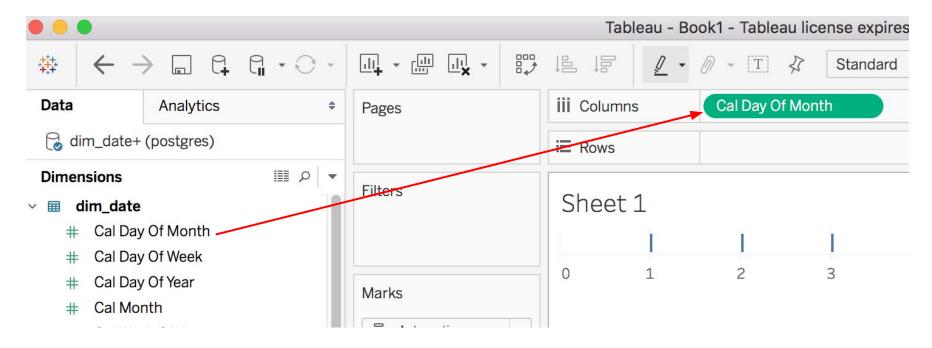
Net Sales by Calendar day

Sheet 1

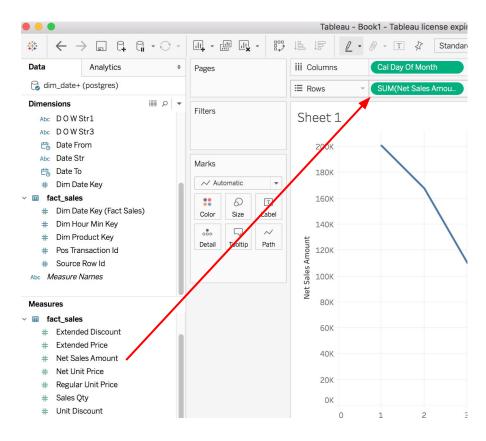
Net sales \$ by calander day



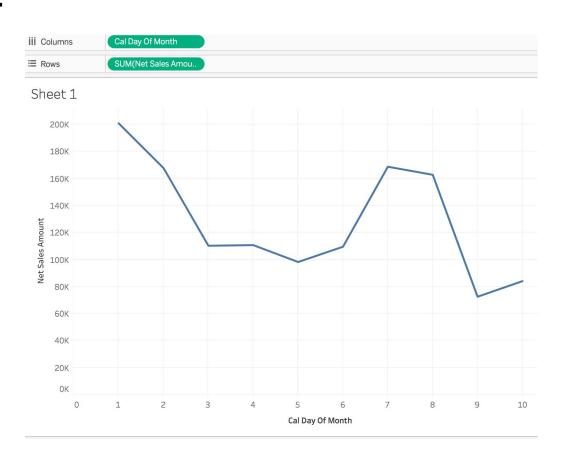
Drag Cal day of month to columns



Drag Net Sales Amount to Rows



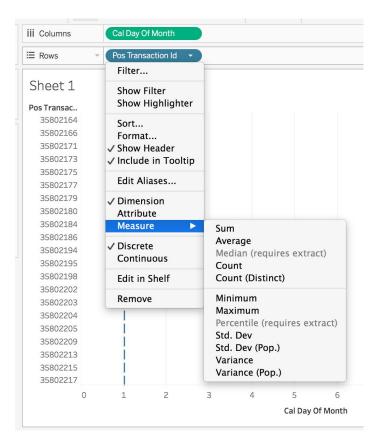
Thats it!



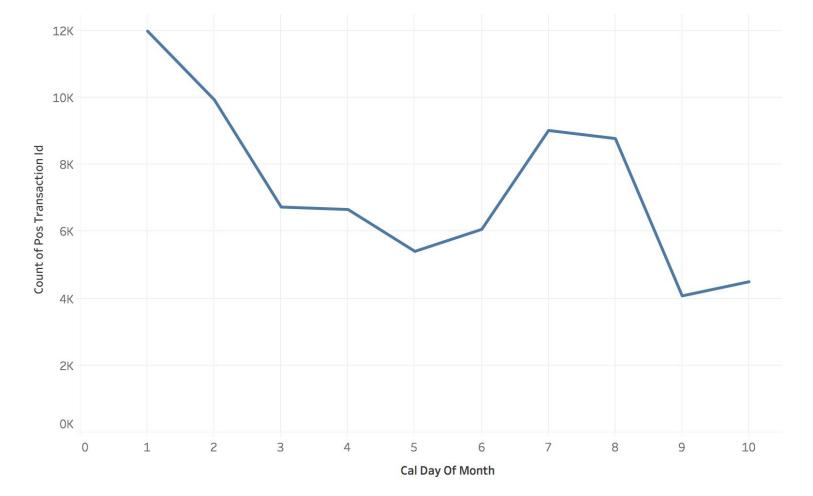
Transaction by calendar day

Sheet 2

Transaction by calendar day - Similar



Change the Measure to Count

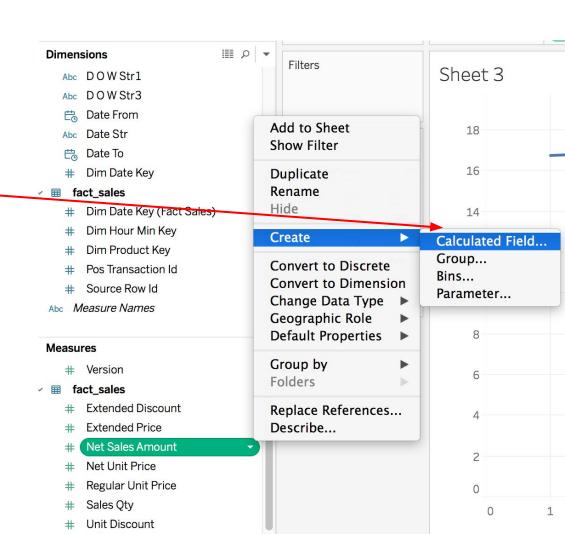


How is the ATV by calendar day of January

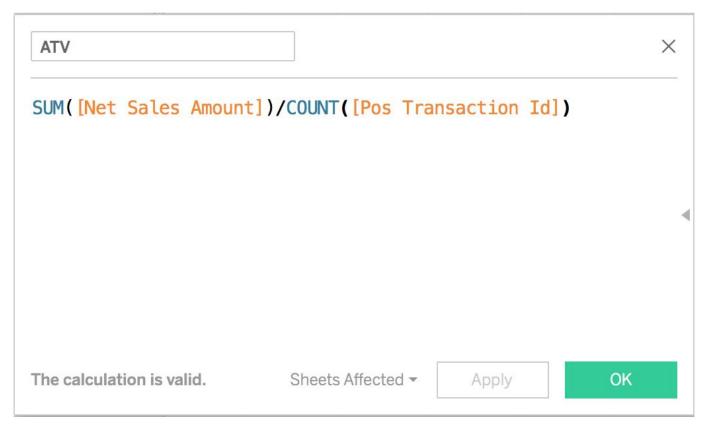
Sheet 3

Compute ATV

Needs to create Calculated Field.

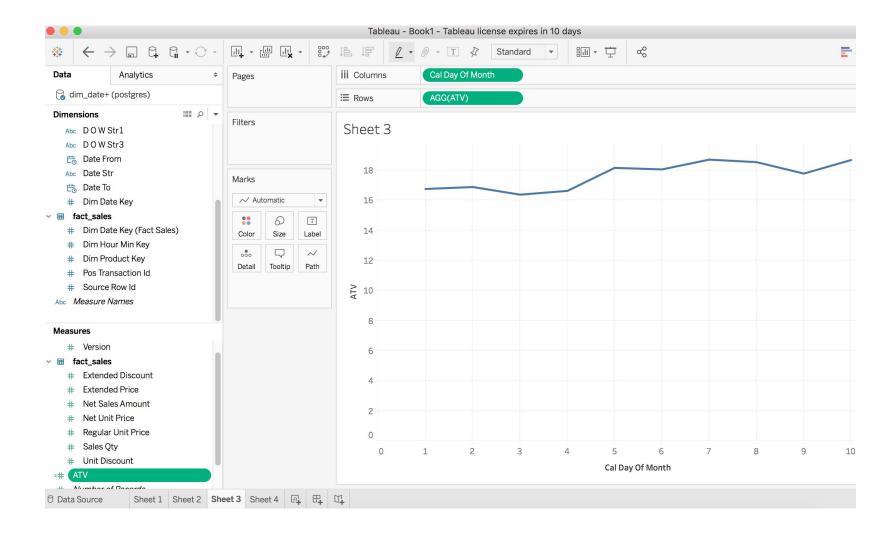


Write the equation



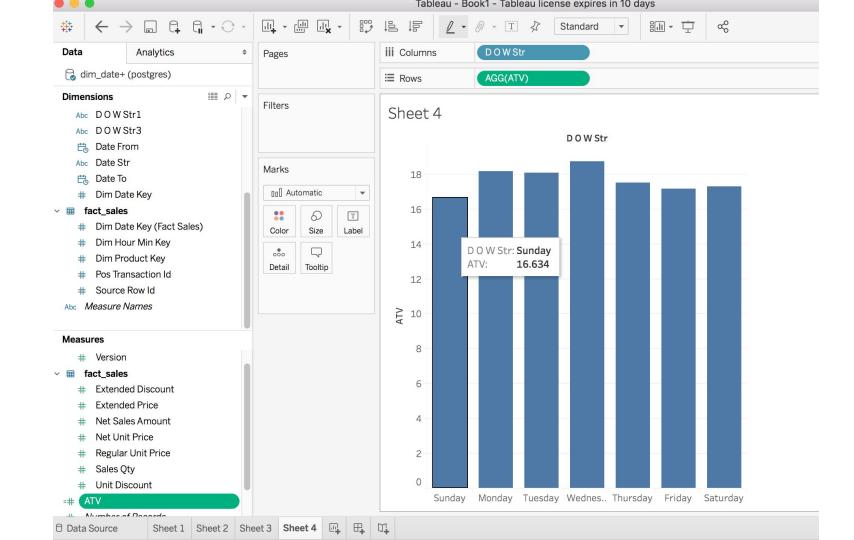
There is no need to specify time period.

When used as a row, Tableau automatically aggregates based on the period in the column



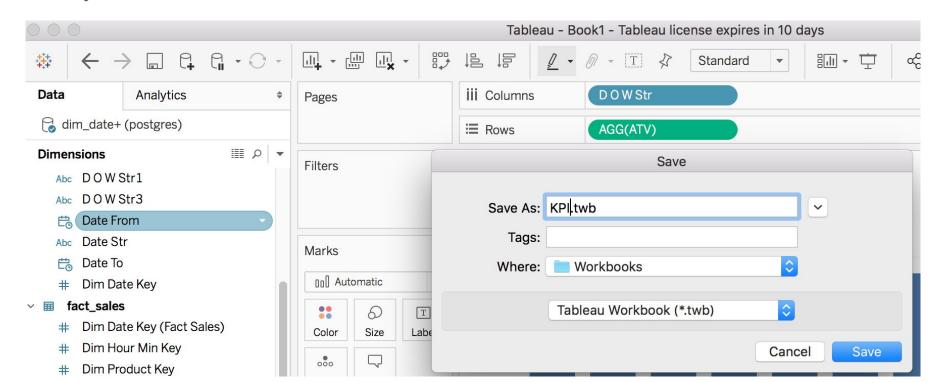
How is the ATV by day of Week

Sheet 4



Finally

Save your work as a tableau workbook from File>Save as menu.



END