



Getting Started with QlikView Part XII

Description:

BISP is committed to provide BEST learning material to the beginners and advance learners. In the same series, we have prepared a complete end-to end Hands-on Beginner's Guide for Qlikview Report, Dashboard and Data Models. The document focuses on Gauge, Pivot Tables and Radar Chart. [Join our professional training program and learn from experts.](#)

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Surbhi Sahu	21 st Aug 2012
0.1	Review#1	Rajkumar Nyalamadugula	29 th Aug 2012

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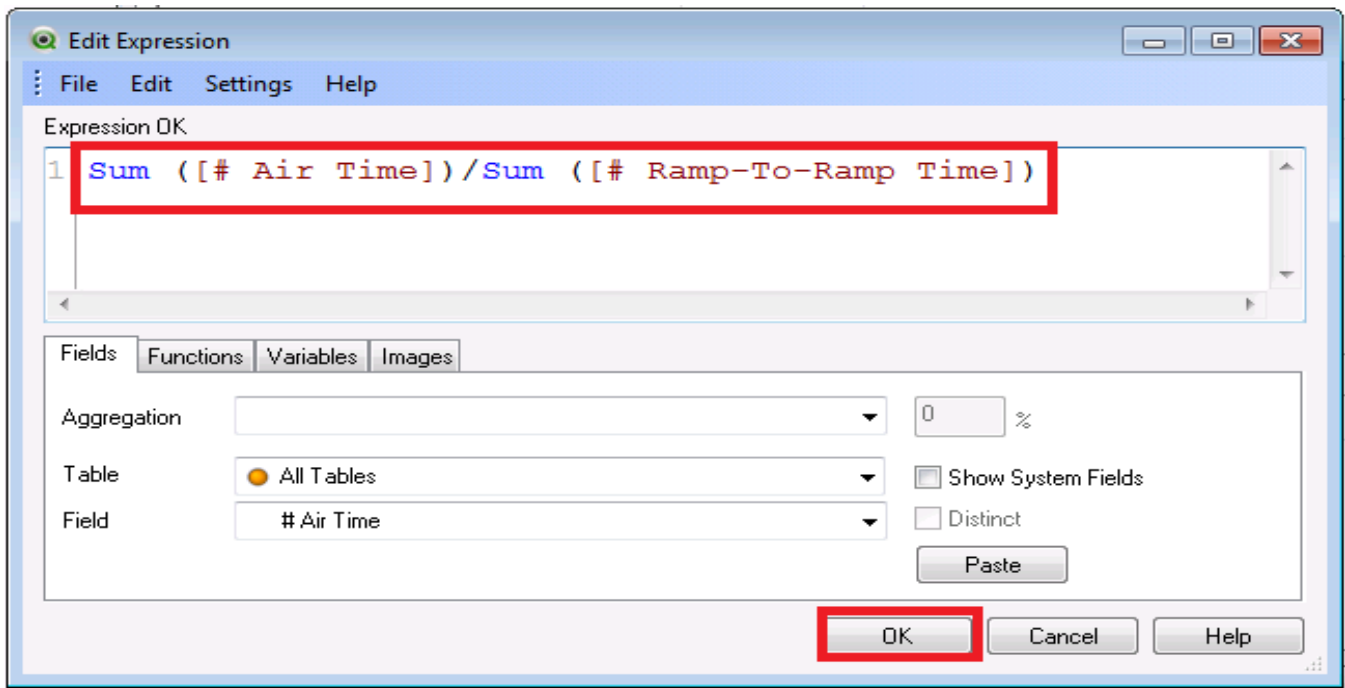


Linking the table level data for the 3 Dashboard KPIs (Meter Guage) :

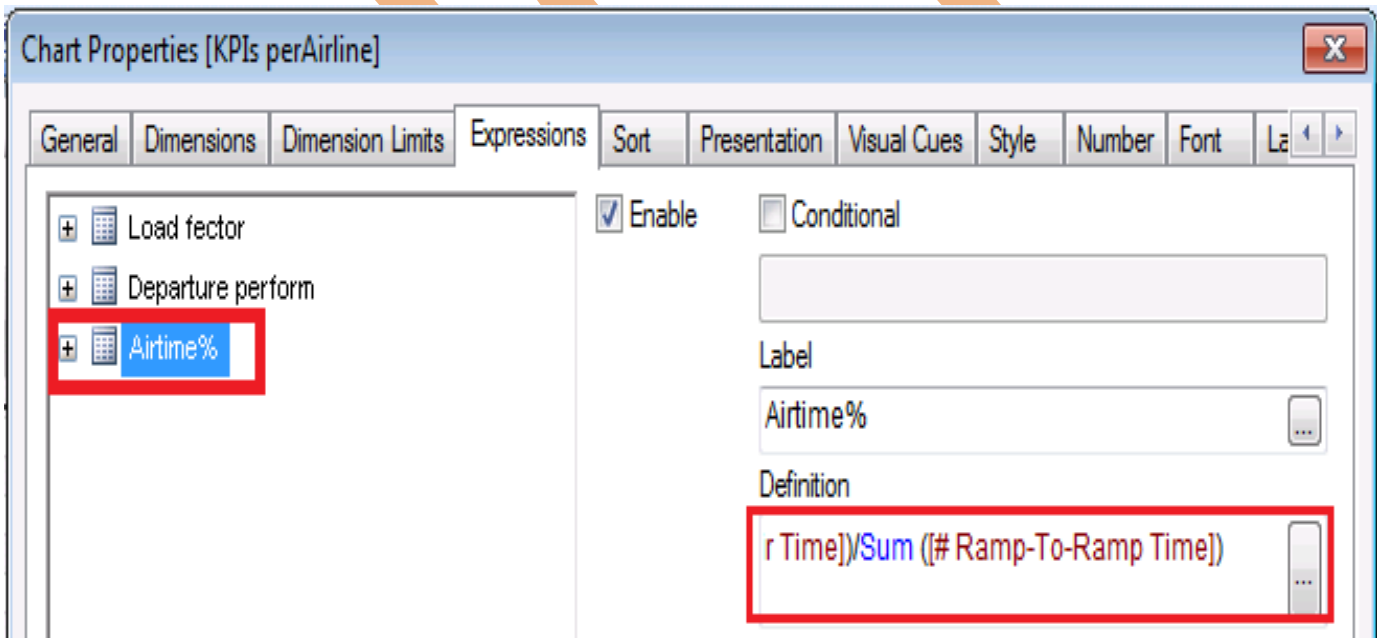
We have created the three gauge charts to cover our three following KPIs as LOAD FACTOR%, DEPARTURE PERFORM% and AIRTIME%.



As the straight table we have created is containing the two fields LOADFACTOR and DEPARTURE PERFORM will is not covering our third field so we do edit the straight table to get the third field. Go to the properties of the straight table ->goto the expression tab ->edit the previous expression as Airtime%



Use the expression as $\text{Sum}([\# \text{Air Time}]) / \text{Sum}([\# \text{Ramp-To-Ramp Time}])$ then-> ok.



The expression is here then->Apply->ok

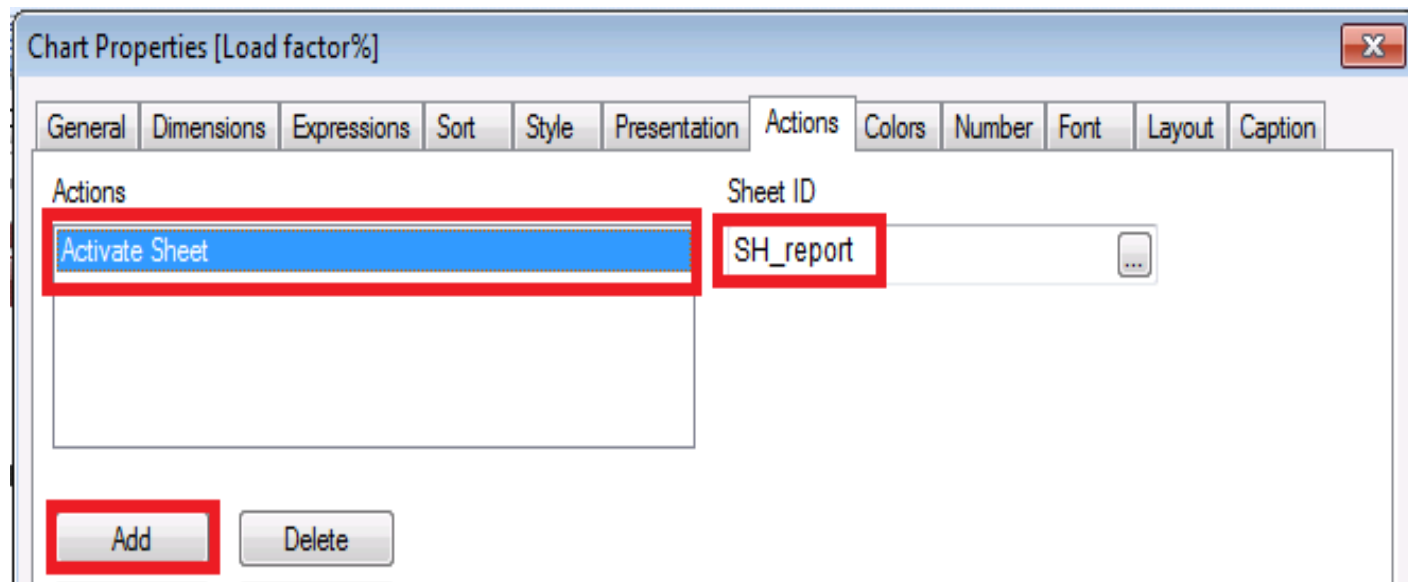
Now the table is here.....

KPIs perOrigin City

ORIGIN CITY	LOAD FACTOR	DEPARTURE PERFORM	AIRTIME%
	0.77519896206307	32296313	0.8299520332937
47-MILE MINE, AK	0.14625850340136	55	0.8303973781237
A CORUNA, SPAIN	0.25806451612903	4	-
AALBORG, DENMARK	0.9231843575419	4	-
AARHUS, DENMARK	0.416666666666667	1	-
ABBOTSFORD, CANADA	0.36538461538462	9	0.882309400444
ABERDEEN, ID	0.0625	2	0.9663250366032
ABERDEEN, SD	0.55595377970128	3889	0.7389263870139
ABILENE, TX	0.66585329746341	9232	0.7224518688049
ABU DHABI, UNITED ARAB ...	0.82920190645297	1902	0.960167714884
ABUJA, NIGERIA	0.51978505129458	40	0.9322809673117
ACAPULCO, MEXICO	0.69324082744531	1995	0.880619858427
ACCRA, GHANA	0.74816212482085	1392	0.9541198257376
ADAK ISLAND, AK	0.19188854085095	319	0.9382494804872
ADANA, TURKEY	0	51	0.9642377204289
ADDIS ABABA, ETHIOPIA	0.77574287260709	846	-
AGADIR, MOROCCO	0	1	-
AGUADILLA, PR	0.82563310743806	15463	0.8900506736893
AGUASCALIENTES, MEXICO	0.69101485811981	2695	0.8547564795491
AIKEN, SC	0.666666666666667	8	0.9254658385093
AKHIOK, AK	0.3618809225818	1996	0.9498386733696
AKIACHAK, AK	0.32823630717846	6821	0.7951266634165
AKIAK, AK	0.30826140567201	5624	0.7979804878046



Its time to connect this straight table with the gauge chart so-> goto the sheet where gauge chart is ->goto the properties of the gauge chart. We are going to add an action which take us to the sheet where the straight table is present. Go to the Action tab->hit the Add button ->Select the action Activate Sheet and give the id of the Report sheet which is SH_report.



Apply->ok

ORIGIN CITY	LOAD FACTOR	DEPARTURE PERFORM	AIRTIME%
	0.77519896206307	3229633	0.8290520332937
47-MILE MINE, AK	0.14625850340136	55	0.8303973781237
A CORUNA, SPAIN	0.25806451612903	4	
AALBORG, DENMARK	0.9231843575419	4	
AARHUS, DENMARK	0.416666666666667	1	
ABBOTSFORD, CANADA	0.36538461538462	9	0.882309400444
ABERDEEN, ID	0.0625	2	0.9663250366032
ABERDEEN, SD	0.55595377970128	3889	0.7389263870139
ABILENE, TX	0.66585329746341	9232	0.7224518688049
ABU DHABI, UNITED ARAB ...	0.82920190645297	1902	0.960167714884
ABUJA, NIGERIA	0.51978505129458	40	0.9322809673117
ACAPULCO, MEXICO	0.69324082744531	1995	0.880619858427
ACCRA, GHANA	0.74816212482085	1392	0.9541198257376
ADAK ISLAND, AK	0.19188854085095	319	0.9382494804872
ADANA, TURKEY	0	51	0.9642377204289
ADDIS ABABA, ETHIOPIA	0.77574287260709	846	
AGADIR, MOROCCO	0	1	
AGUADILLA, PR	0.82563310743806	15463	0.8900506736893
AGUASCALIENTES, MEXICO	0.69101485811981	2695	0.8547564795491
AIKEN, SC	0.666666666666667	8	0.9254658385093
AKHIOK, AK	0.3618809225818	1996	0.9498386733696
AKIACHAK, AK	0.32823630717846	6821	0.7951266634165
AKIAK, AK	0.30826140567201	5624	0.7979804878046

After click on the gauge chart the Report sheet will appear whose Id is SH_report on which the straight table exists.

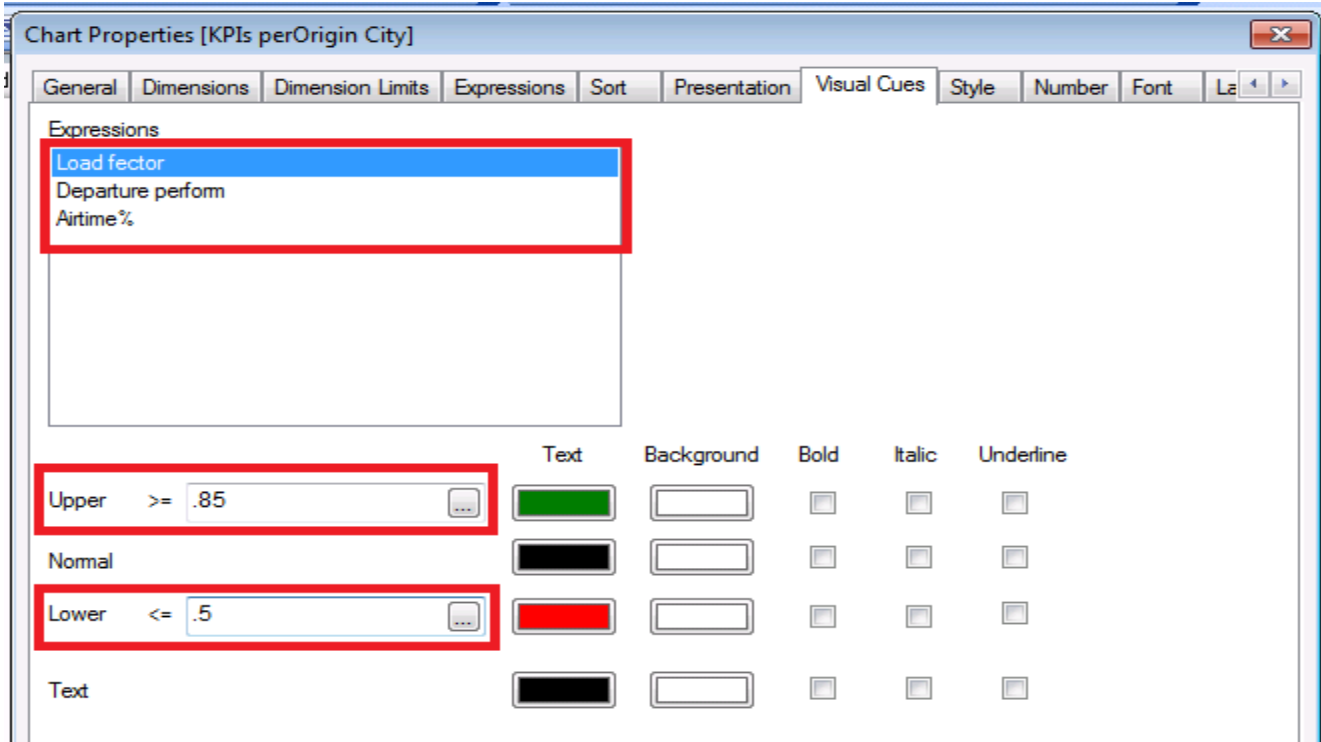
Look here in the table the total is coming on the top row of the table if we want the total in the bottom row of the table .

The screenshot shows the 'Chart Properties' dialog box for 'KPIs perOrigin City'. The 'Presentation' tab is active. In the 'Alignment' section, a red box highlights the following settings: 'Label' is set to 'Left', 'Data (Numeric)' is set to 'Right', and 'Data (Text)' is set to 'Left'. In the 'Totals' section, another red box highlights 'Totals on Last Row' being selected and 'Use Label' being checked with the label 'Total'.

Go to the properties of the Straight Table ->Presentation tab, here the option available is Totals on Last Row, check the option and Use Label as Total. Here the alignment given as Label and text on the left and the numeric value in the right ->Apply->ok

ORIGIN CITY	LOAD FACTOR	DEPART URE PERFORM	AIRTIME%
47-MILE MINE, AK	0.14625850340136	55	0.8303973781237
A CORUNA, SPAIN	0.25806451612903	4	-
AALBORG, DENMARK	0.9231843575419	4	-
AARHUS, DENMARK	0.416666666666667	1	-
ABBOTSFORD, CANADA	0.36538461538462	9	0.882309400444
ABERDEEN, ID	0.0625	2	0.9663250366032
ABERDEEN, SD	0.55595377970128	3889	0.7389263870139
ABILENE, TX	0.66585329746341	9232	0.7224518688049
ABU DHABI, UNITED ARAB ...	0.82920190645297	1902	0.960167714884
ABUJA, NIGERIA	0.51978505129458	40	0.9322809673117
ACAPULCO, MEXICO	0.69324082744531	1995	0.880619858427
ACCRA, GHANA	0.74816212482085	1392	0.9541198257376
ADAK ISLAND, AK	0.19188854085095	319	0.9382494804872
ADANA, TURKEY	0	51	0.9642377204289
ADDIS ABABA, ETHIOPIA	0.77574287260709	846	-
AGADIR, MOROCCO	0	1	-
AGUADILLA, PR	0.82563310743806	15463	0.8900506736893
AGUASCALIENTES, MEXICO	0.69101485811981	2695	0.8547564795491
AIKEN, SC	0.666666666666667	8	0.9254658385093
AKHIOK, AK	0.3618809225818	1996	0.9498386733698
AKIACHAK, AK	0.32823630717846	6821	0.7951266634165
AKIAK, AK	0.3082418517391	5121	0.707004878916
TOTAL	0.77519896206307	3229633	0.8299520332937

We can give some baseline in our chart if the value cross this baseline the value indicates in different colors. Go to the properties of chart->Visual cues tab



Here if the Load factor has values above 85% those value will show in green color and if lower than 50% will be shown in red color. Apply this setting with the two remaining field then->Apply->ok.

ORIGIN CITY	LOAD FACTOR	DEPART URE PERFORM	AIRTIME%
47-MILE MINE, AK	0.14625850340136	55	0.8303973781237
A CORUNA, SPAIN	0.25806451612903	4	-
AALBORG, DENMARK	0.9231843575419	4	-
AARHUS, DENMARK	0.416666666666667	1	-
ABBOTSFORD, CANADA	0.36538461538462	9	0.882309400444
ABERDEEN, ID	0.0625	2	0.9663250366032
ABERDEEN, SD	0.55595377970128	3889	0.7389263870139
ABILENE, TX	0.66585329746341	9232	0.7224518688049
ABU DHABI, UNITED ARAB ...	0.82920190645297	1902	0.960167714884
ABUJA, NIGERIA	0.51978505129458	40	0.9322809673117
ACAPULCO, MEXICO	0.69324082744531	1995	0.880619858427
ACCRA, GHANA	0.74816212482085	1392	0.9541198257376
ADAK ISLAND, AK	0.19188854085095	319	0.9382494804872
ADANA, TURKEY	0	51	0.9642377204289
ADDIS ABABA, ETHIOPIA	0.77574287260709	846	-
AGADIR, MOROCCO	0	1	-
AGUADILLA, PR	0.82563310743806	15463	0.8900506736893
AGUASCALIENTES, MEXICO	0.69101485811981	2695	0.8547564795491
AIKEN, SC	0.666666666666667	8	0.9254658385093
AKHIOK, AK	0.3618809225818	1996	0.9498386733698
AKIACHAK, AK	0.32823630717846	6821	0.7951266634165
AKIAK, AK	0.30826140567201	5624	0.7979804878048
AKITA, JAPAN	0.74838709677419	2	0.9419642857142
AKRON, OH	0.79902993098581	35651	0.7745133159506
AKULIK, AK	-	9	0.7619047619047
AKURE, NIGERIA	0.71428571428571	1	-
AKUREYOLI, ICELAND	0.65573770401803	1	-
TOTAL	0.77519896206307	32296313	0.8299520332937

Look these values indicated in green and red colors.

This chart is viewing so simple so we can give some colors effect on it by going through the Style tab, then keep the value = 1 for Stripes every this will give the light effect after every 1 stripes.

Chart Properties [KPIs perOrigin City]

General Dimensions Dimension Limits Expressions Sort Presentation Visual Cues **Style** Number F

Current Style: **Light**

Stripes every: **1** Rows

Cell Background Color Transparency: 0% — 100%

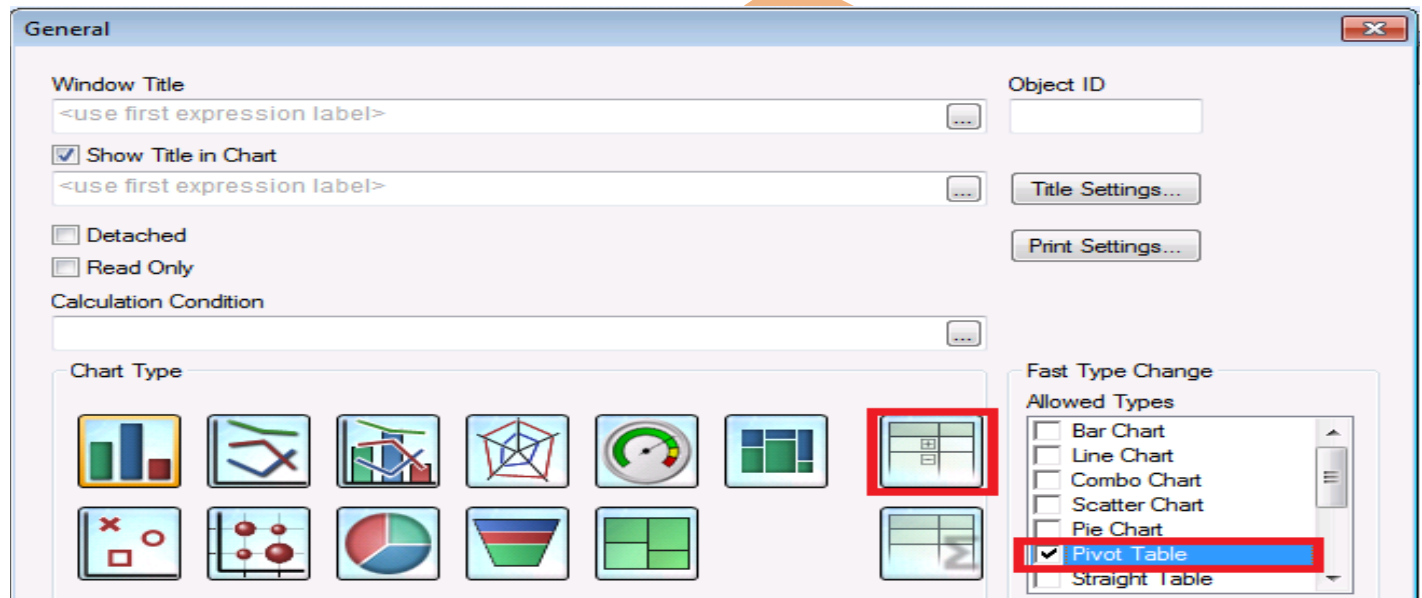
Cell Borders Transparency: 0% — 100%

Now see the result here.....

AIRLINE	LOAD FACTOR	DEPARTURE PERFORM	AIRTIME%
40-MILE AIR: Q5	15.2%	78,100.0%	92.5%
ABACO AIR, LTD.: BZQ	50.2%	3,600.0%	-
ABC AEROLINEAS SA DE ...	91.5%	13,200.0%	-
ABSA-AEROLINHAS BRASIL...	-	126,100.0%	-
ABX AIR, INC.: ABX	-	1,634,400.0%	87.1%
ACM AIR CHARTER GMB...	16.0%	10,500.0%	-
ACROPOLIS AVIATION LTD....	28.1%	4,200.0%	-
AER LINGUS PLC: EI	77.0%	442,800.0%	-
AEROENLACES NACIONALES,...	64.6%	79,700.0%	-
AEROFLOT RUSSIAN AIRLIN...	80.1%	142,600.0%	-
AEROLINEAS ARGENTINAS: AR	80.9%	50,900.0%	-
AEROLINEAS GALAPAGOS S...	73.2%	77,300.0%	-
AEROLITORAL: 5D	76.9%	584,000.0%	-
AEROLOGIC GMBH: 3S	-	93,800.0%	-
AEROMEXICO TRAVEL: TRA	75.9%	76,600.0%	-
AEROMEXICO: AM	76.3%	1,970,400.0%	-
AEROSUR: 5L	78.4%	46,500.0%	-
AEROSVIT UKRANIAN AIRLI...	90.0%	51,800.0%	-
AEROTRANSPORTES MAS DE...	-	167,800.0%	-
AEROUNION AEROTRANSPOR...	-	148,500.0%	-
AEROVIAS DE INTERGRACIAN...	78.9%	74,300.0%	-
AEROVIAS NAC'L DE COLO...	81.5%	747,000.0%	-
Air Alps A/S: 1E0	95.1%	8,300.0%	-
TOTAL	78.6%	1,075,065,500.0%	83.3%

Pivot Table

A pivot table is a data summarization tool found in data visualization programs such as spreadsheets or business intelligence software. Among other functions, a pivot-table can automatically sort, count, total or give the average of the data stored in one table or spreadsheet. It displays the results in a second table (called a "pivot table") showing the summarized data. Pivot tables are also useful for quickly creating unweighted cross tabulations. The user sets up and changes the summary's structure by dragging and dropping fields graphically. This rotate the values dimensionally as in the yearly or monthly.

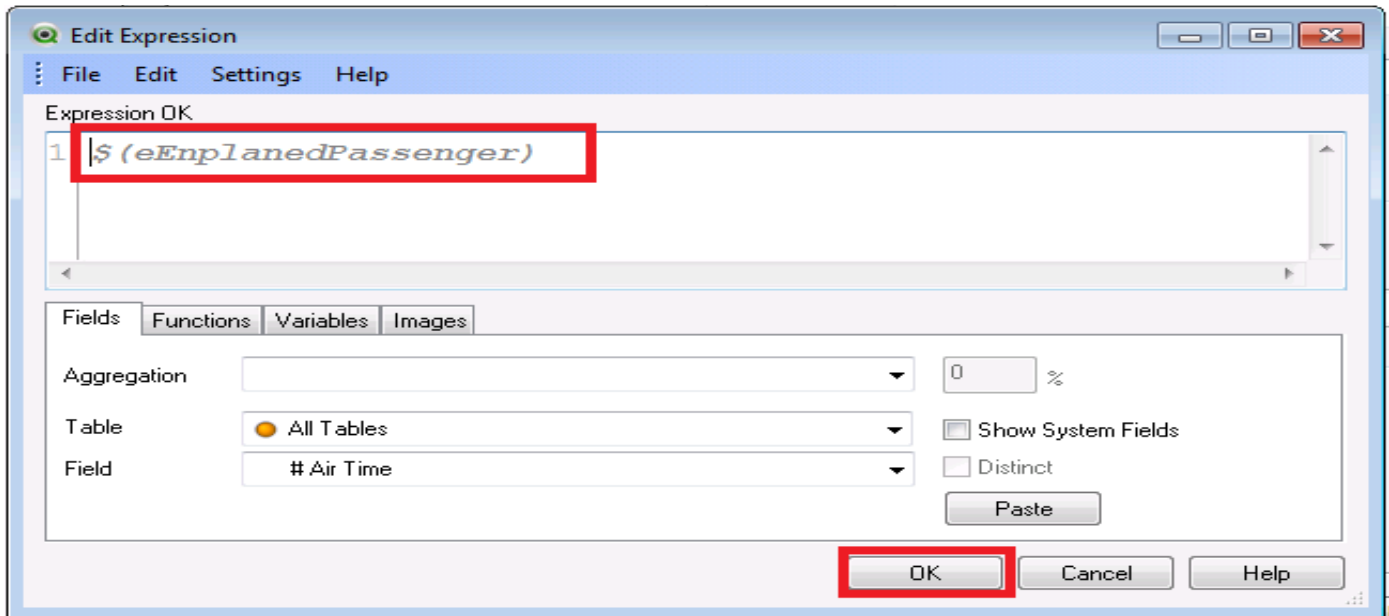


Go to the new sheet object->charts->pivot table.

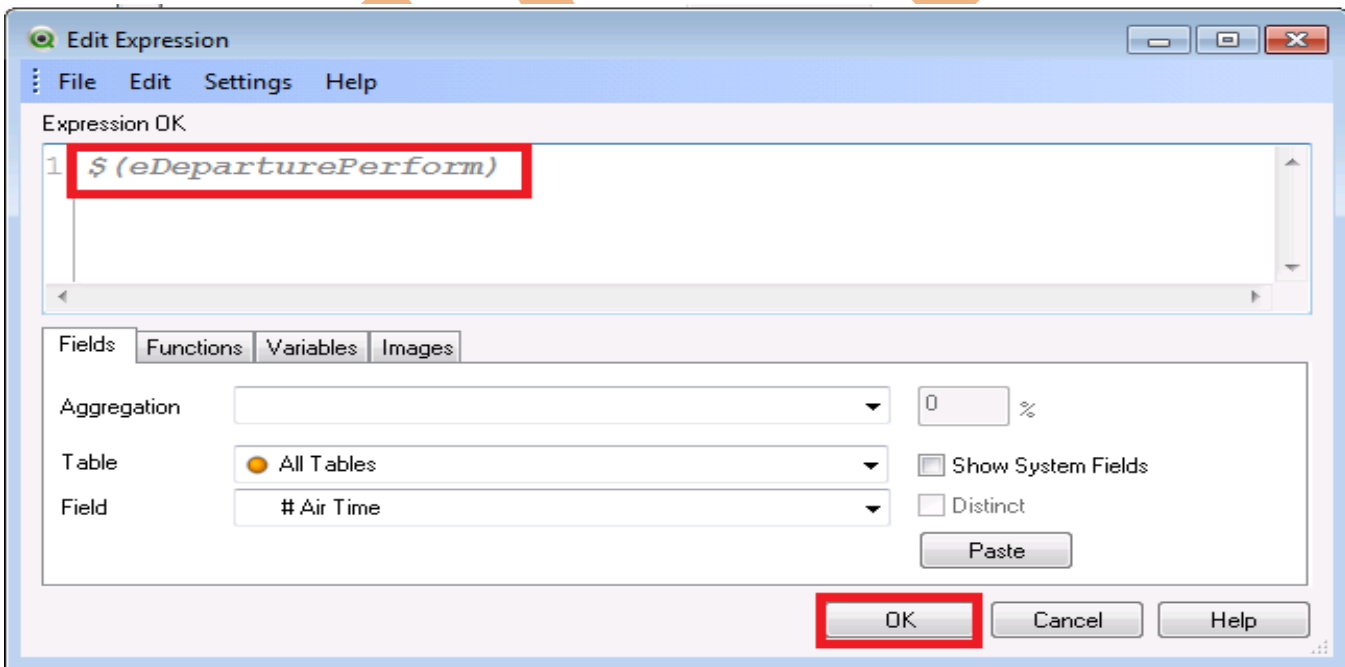
We now have to create a table that shows enplaned passengers and departures performed across the Carrier Group, Airline, Year and Month dimensions. This table should show totals for each

year, and subtotals for each carrier group.

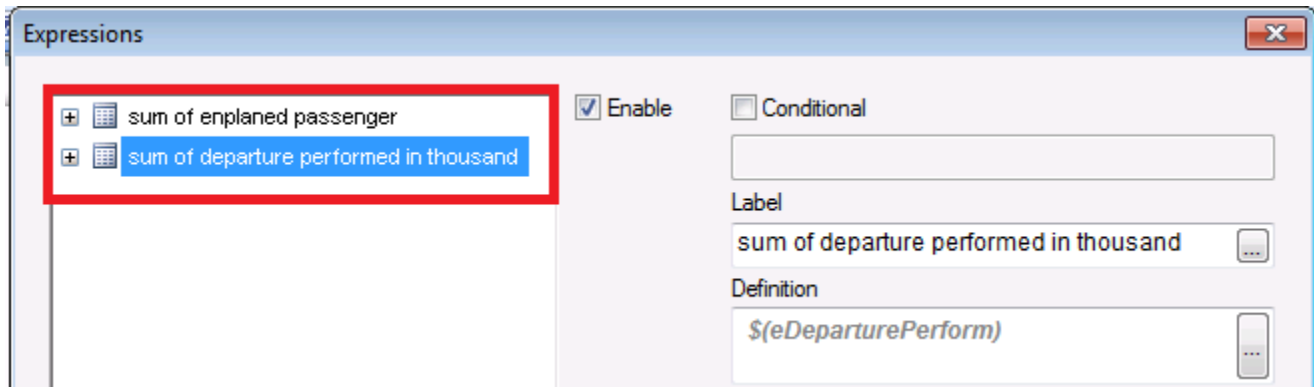
so here two expression require which is enplaned passengers and departure perform, Go to expression tab -> add expression.



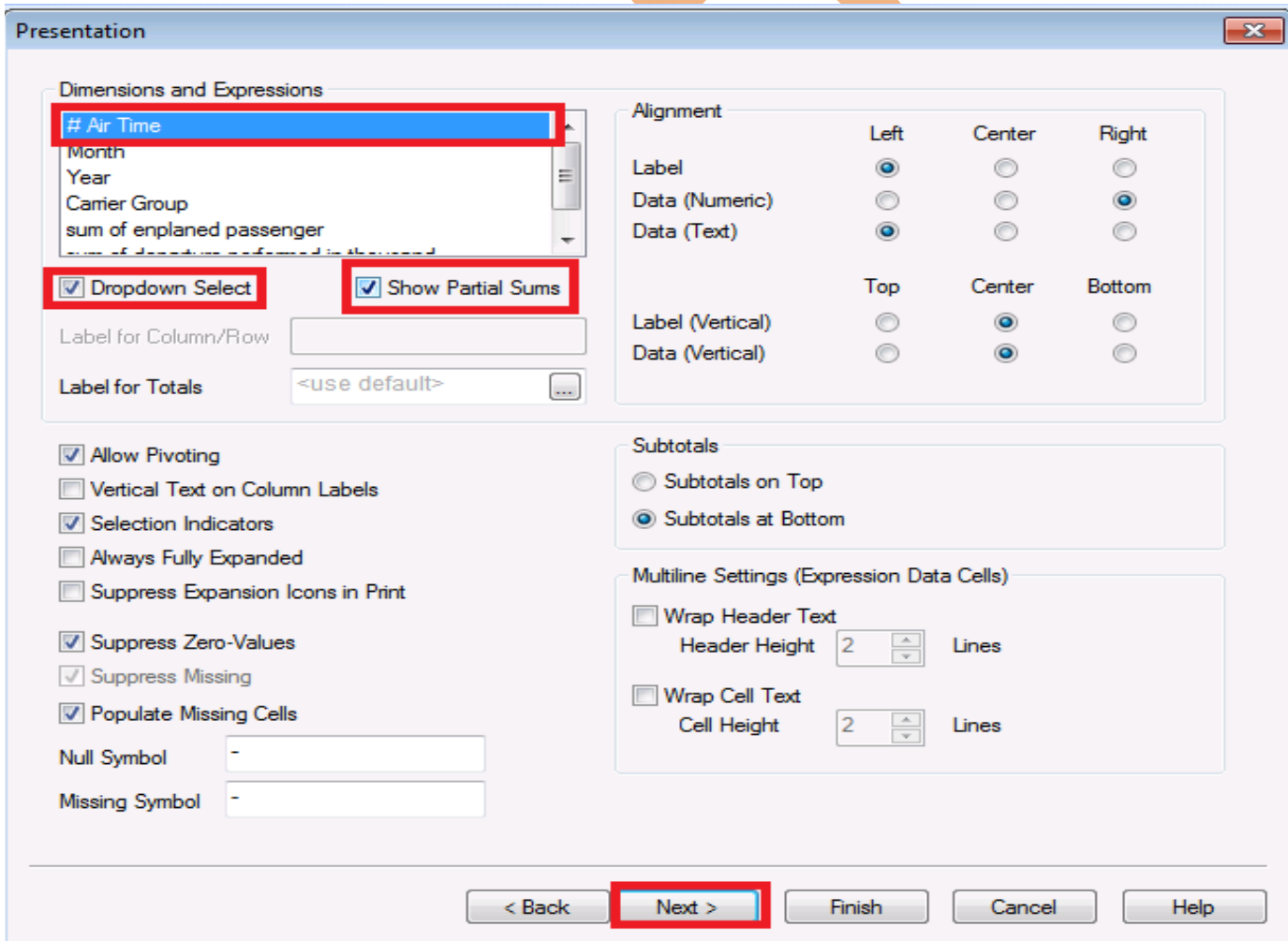
Here we are using a variable as we have already created. Now add here one more expression for departures perform.



Now these are the expressions here then ->Next



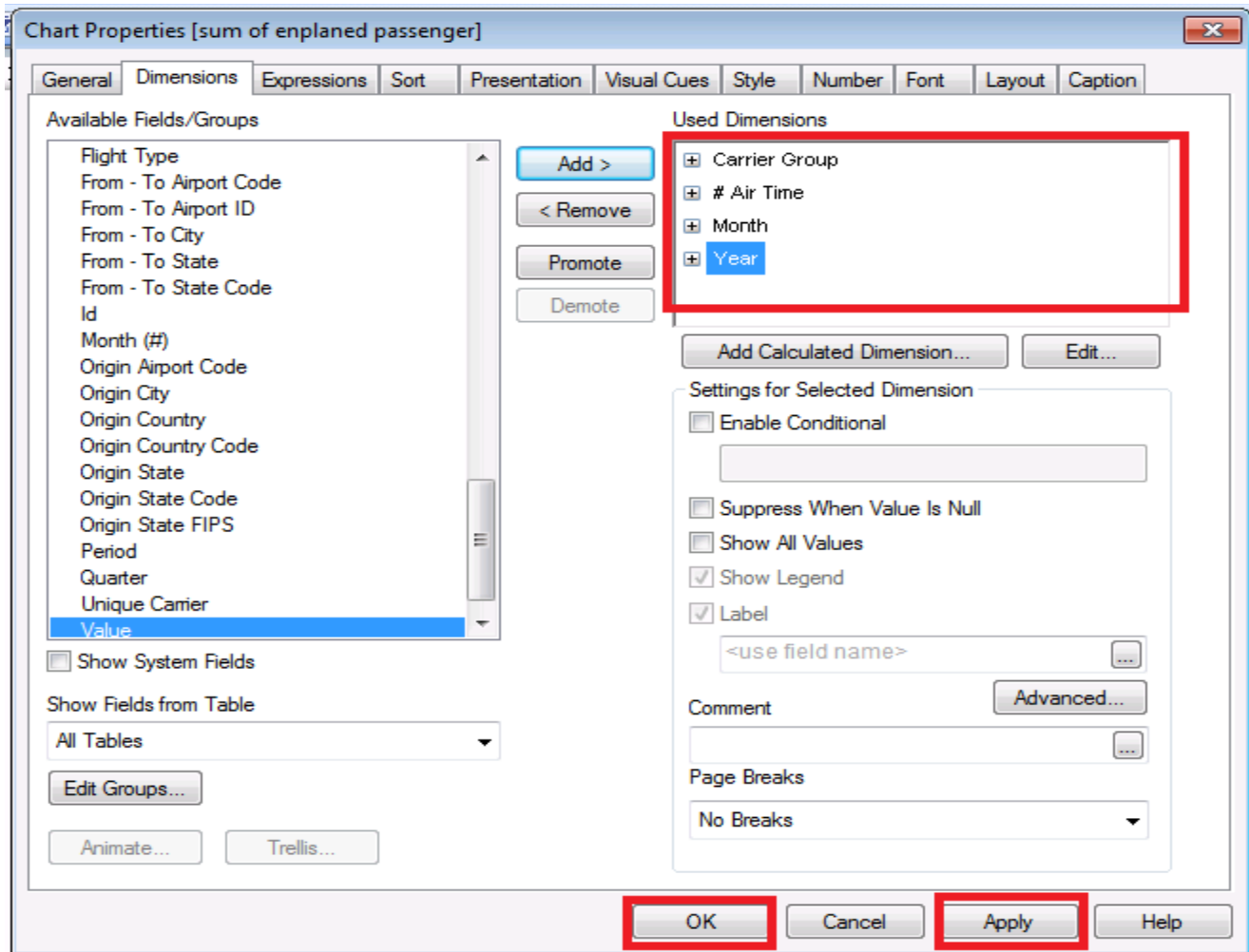
Now come to the presentation tab



Here check the options Dropdown Select and Show partial sums, follow the same setting with Carrier group and Airline. And with the field month and year only keep checked Dropdown select the Show partial sums remain unchecked -> Next.

Now come to the dimension tab here and add the field's 'Carrier Group' , 'Airline' , 'Month' , 'Year'

> Next.



Now table is created

Carrier Group	sum of enplaned...	sum of departure performed in thousand
Commuter Ca... +	37592837	2214573
Foreign Carriers +	214326703	1742817
Large Regional... +	9555226	345912
Major Carriers... +	1824677744	19862066
Medium Regi... +	2107343	50191
National Carri... +	312870228	6341060
Small Certific... +	14215611	1739327
- +	16327	367

Now look the sheet in expanded format.

Carrier	Airline	Year	Month	sum of enplaned...	sum of departure performed in thousand	
Commuter Carriers (air taxi operator which performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the weeks and plans between which such flights are performed.)	Bemidji Airli... +			0	1666	
	Cape Air: 9K +			1989083	392171	
	Charter Air Tr... +			68172	3796	
	Chautauqua Airlines Inc.: RP		2009	Jan	440895	15190
				Feb	446451	14163
				Mar	555575	15736
				Apr	522137	14454
				May	503870	13489
				Jun	510516	13102
				Jul	518981	13423
				Aug	511151	13885
				Sep	465002	13123
				Oct	528071	14546
				Nov	474693	13772
				Dec	482886	14076
		2010 +		5838429	167447	
	2011	Jan		400450	13077	
		Feb		359877	11290	
		Mar		480317	14245	
		Apr		465147	13370	
May			501855	13778		
Jun			494843	13534		

Here if we want to see the data exploration with respect to year we can manage it by simply drag and drop the following.

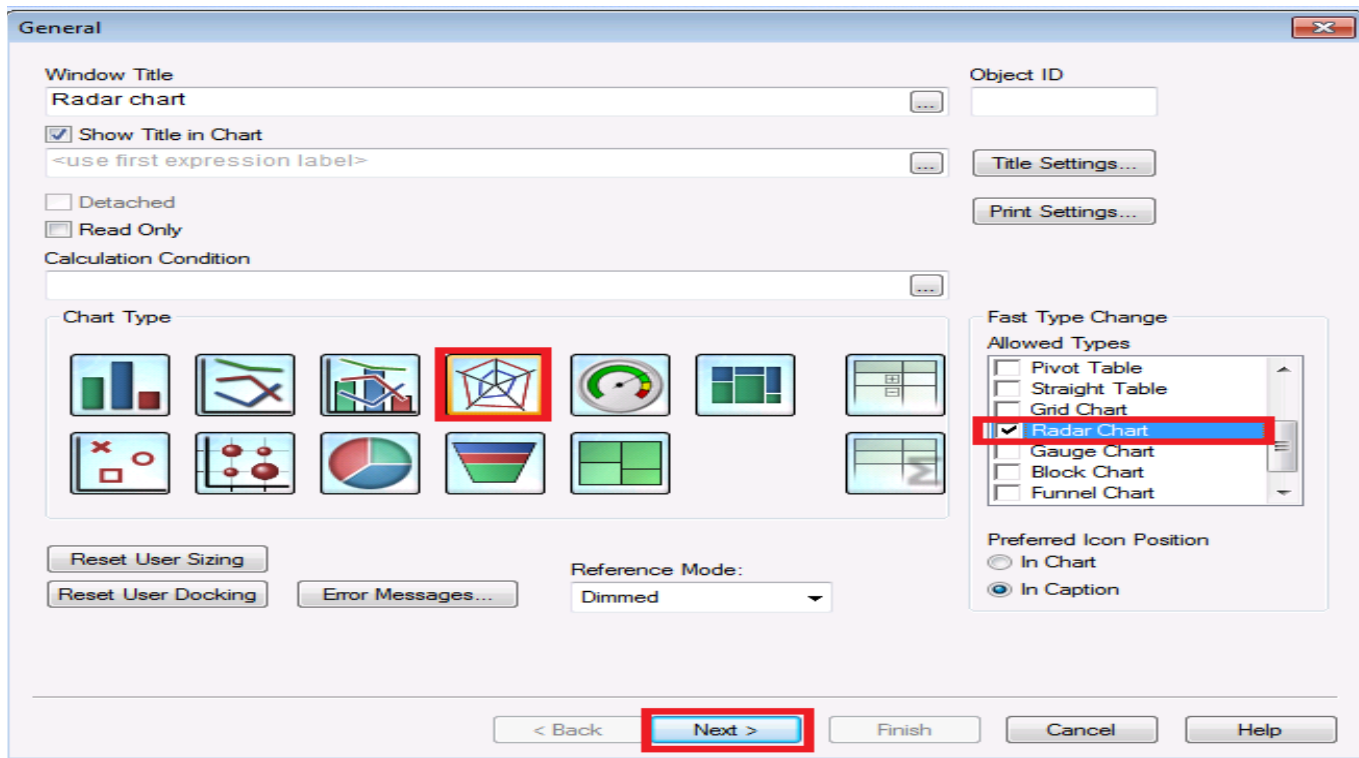
Carrier Group	Year	Airline	Month	sum of enplaned...	sum of departure performed in thousand
Commuter Carriers (air taxi operator which performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the weeks and plans between which such flights are performed.)	2009	Air Greco, Inc...		900	304
		Bemidji Airli...		0	567
		Cape Air: 9K		629051	131230
			Jan	440895	15190
			Feb	446451	14163
			Mar	555575	15736
			Apr	522137	14454
			May	503870	13489
		Chautauqua Airlines Inc.: RP	Jun	510516	13102
			Jul	518981	13423
			Aug	511151	13885
			Sep	465002	13123
			Oct	528071	14546
	Nov	474693	13772		
	Dec	482886	14076		
Commutair A...		831588	35039		
Ellis Air Taxi...		245	578		
Freedom Air: ...		76734	10138		
Grand Canyon...		224795	19094		
Great Lakes A...		560376	92518		
Gulfstream Int:...		456854	47231		
Harris Air Ser...		338	178		

The data explored with respect to year

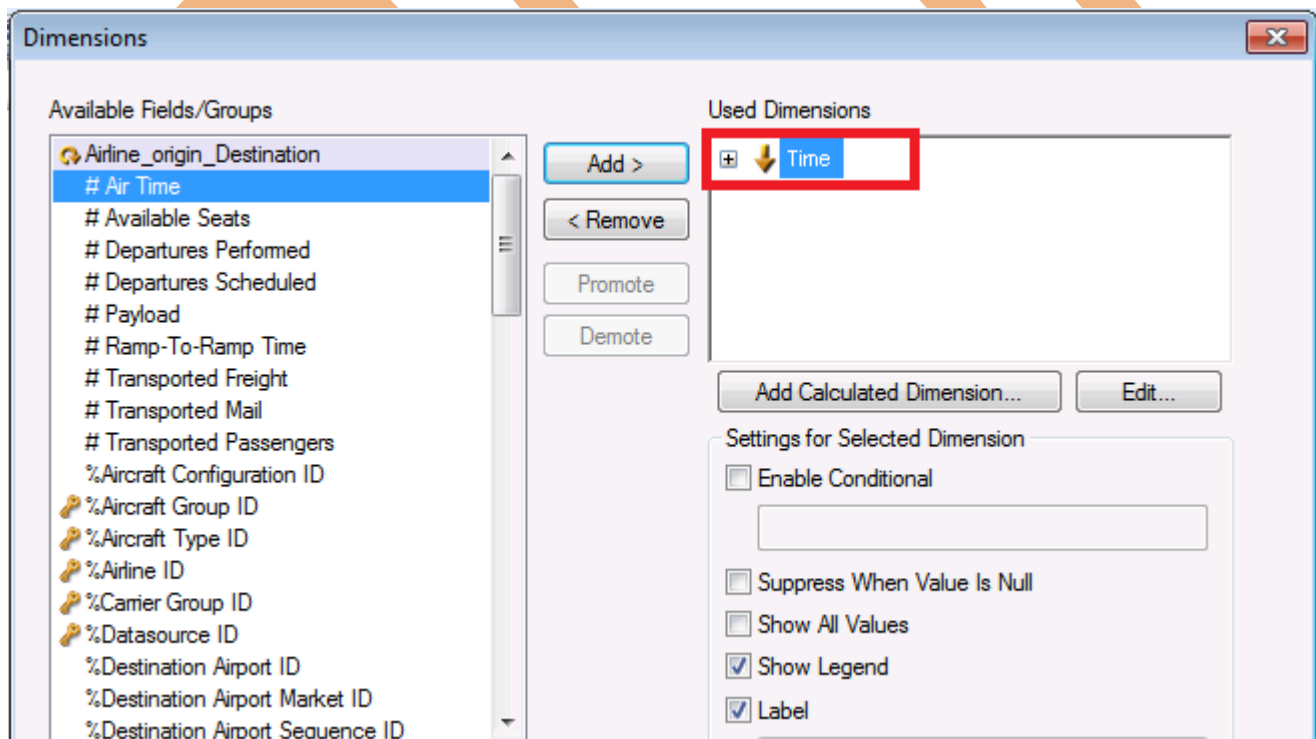
Radar Chart

A radar chart is a graphical method of displaying multivariate data in the form of a two-dimensional chart of three or more quantitative variables represented on axes starting from the same point. The relative position and angle of the axes is typically uninformative.

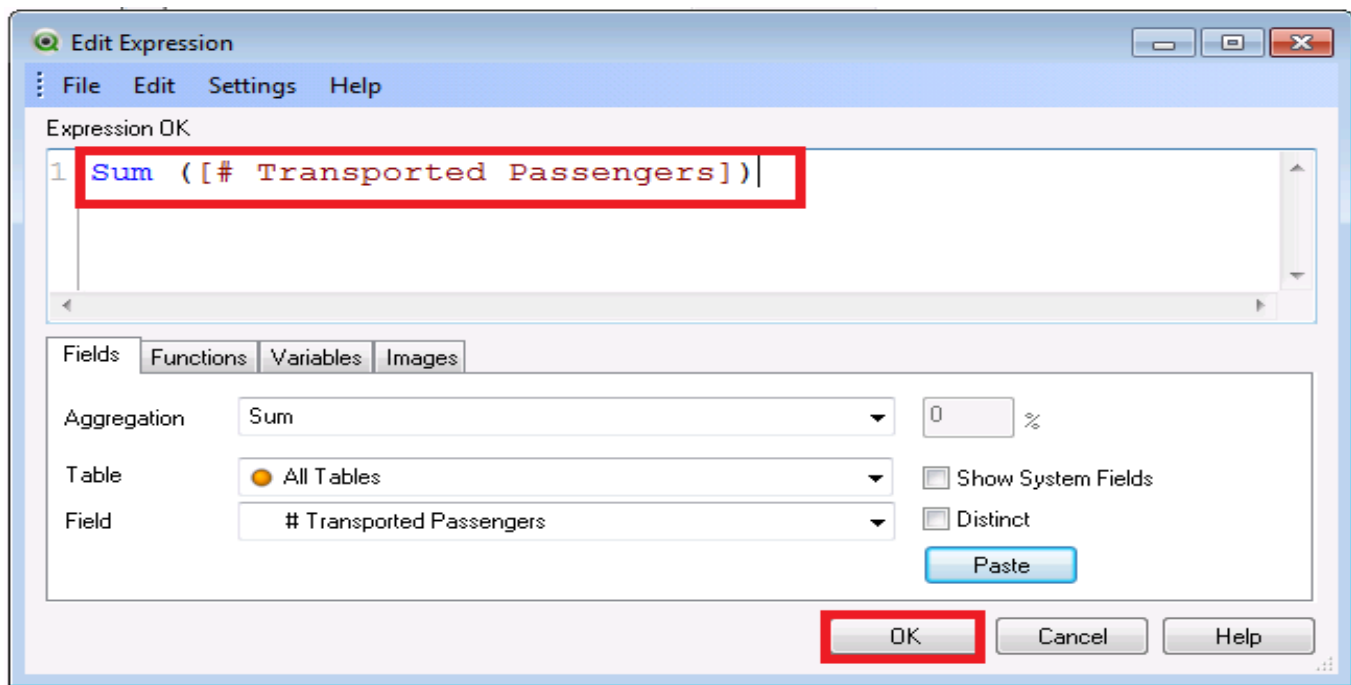
The Radar Chart can be used to depict information that is cyclical in nature. For Here we create the radar chart which illustrates the number of enplaned passengers per month. In this example you can clearly see that travel increases during the summer months.



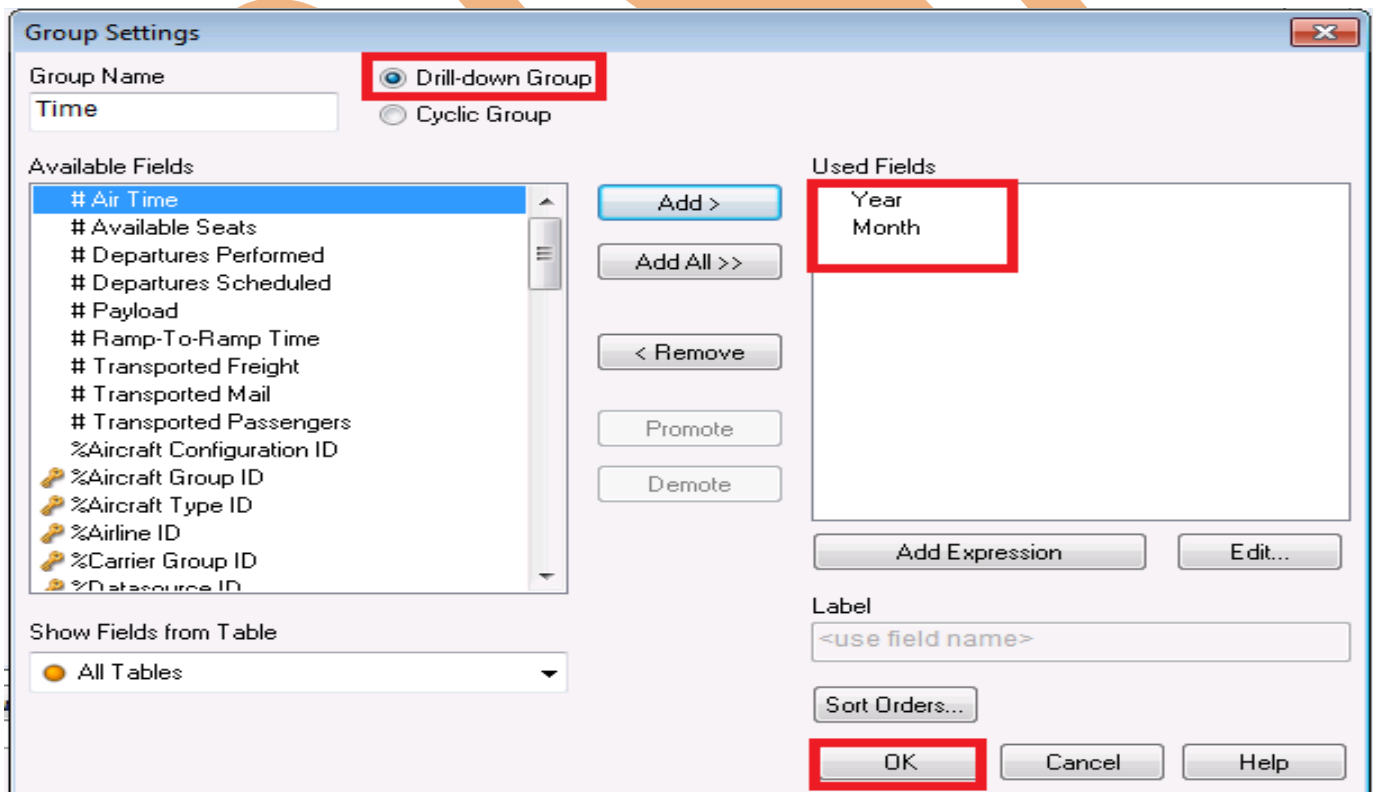
Now come to the Dimension tab and take the dimension time which is the drill down group we have already built.



In the expression tab, expression to be selected is “sum of Transported passengers” ->OK. Because we have to visualize the sum of transported passengers monthly.

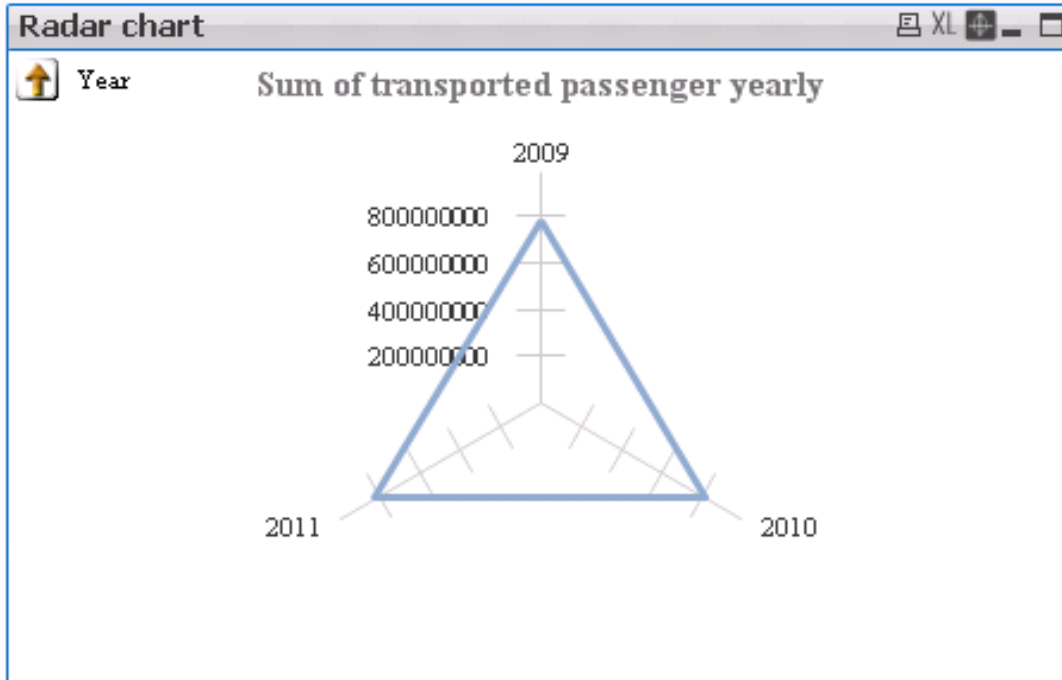


Here we will create the Drill-down group “Time” which contains the field’s as shown below.

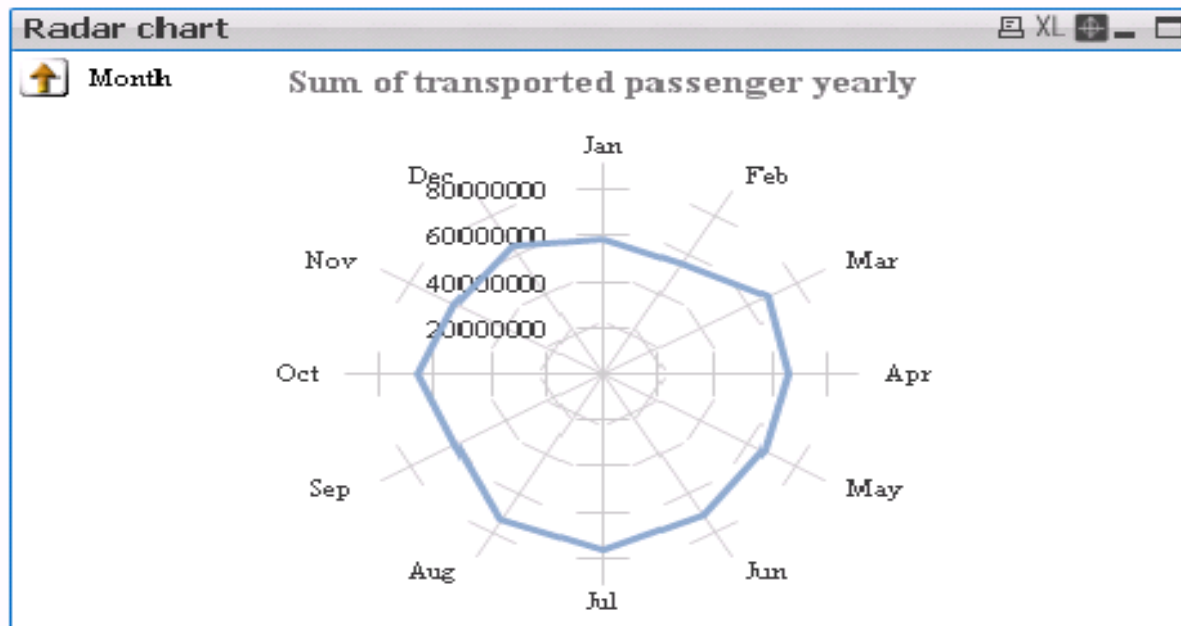


Once the “Time” Drill-down is created > OK

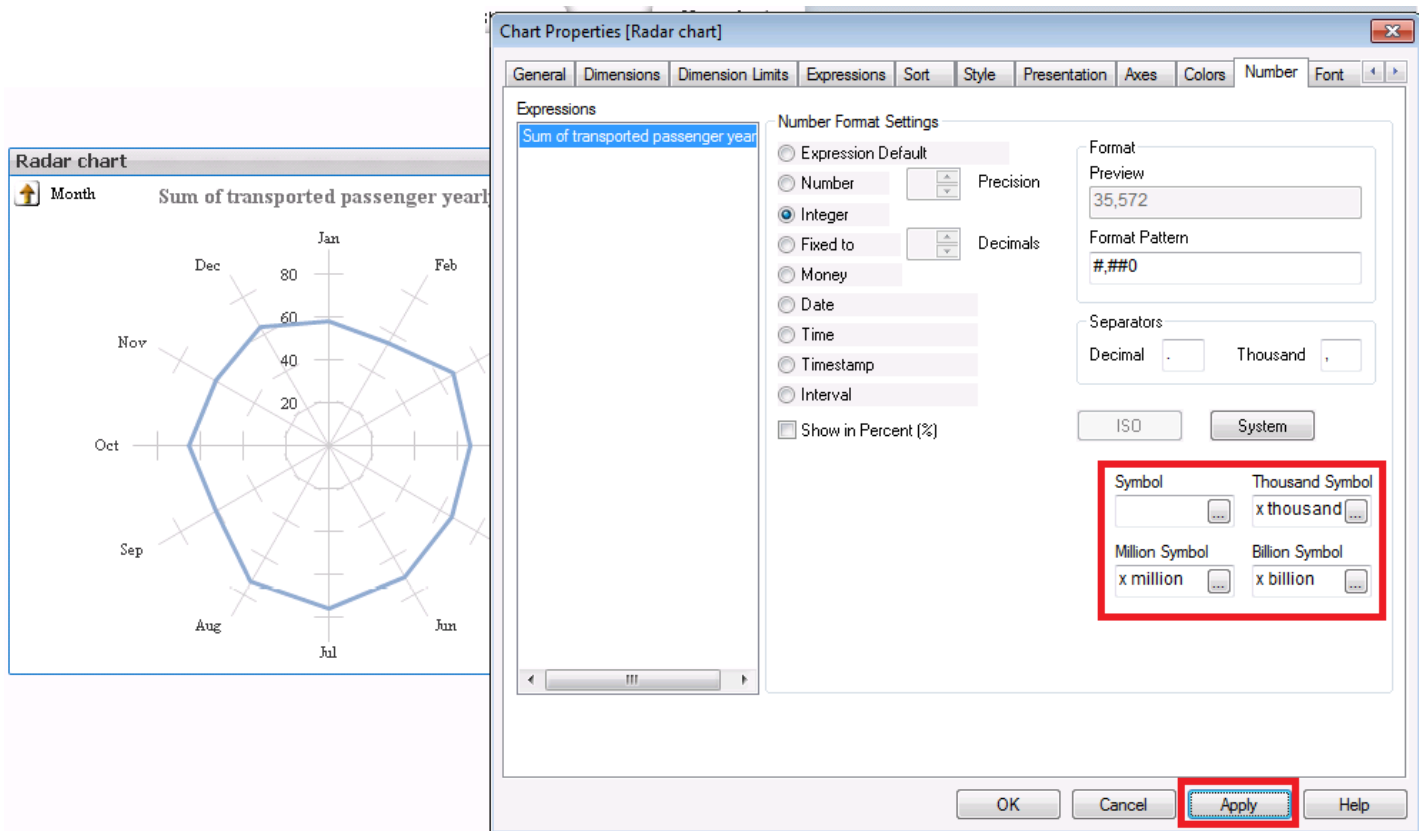
Now the chart is being created



Now select any of the Year, the chart is scattered / drill down into the months.

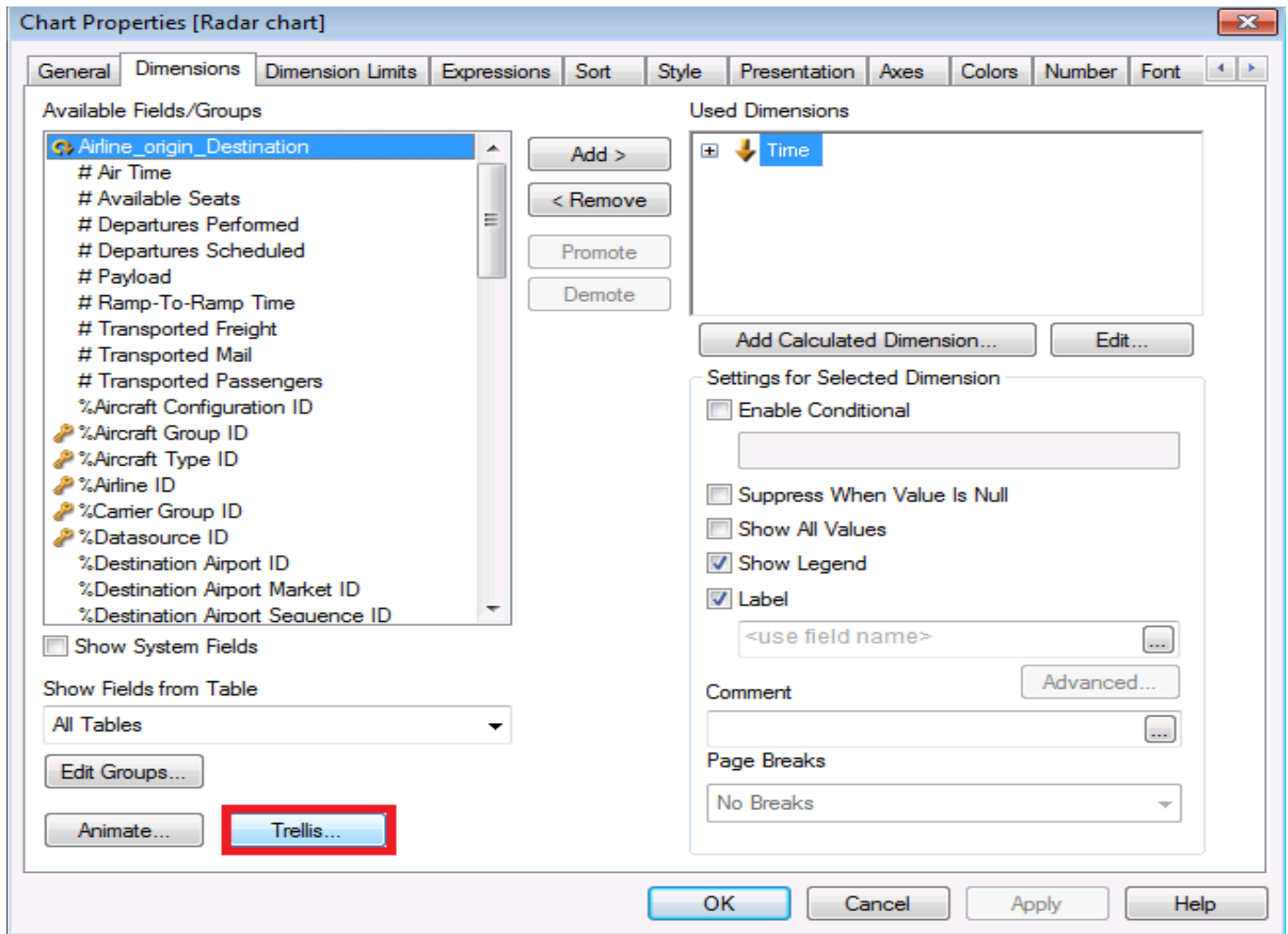


If we convert the number in the million the value will be easy to identify. Go to the Number tab, input the Thousand symbol with "x Thousand" and Million symbol with "x Million" and Billion symbol with "x Billion" -> Apply and see the change in the chart.

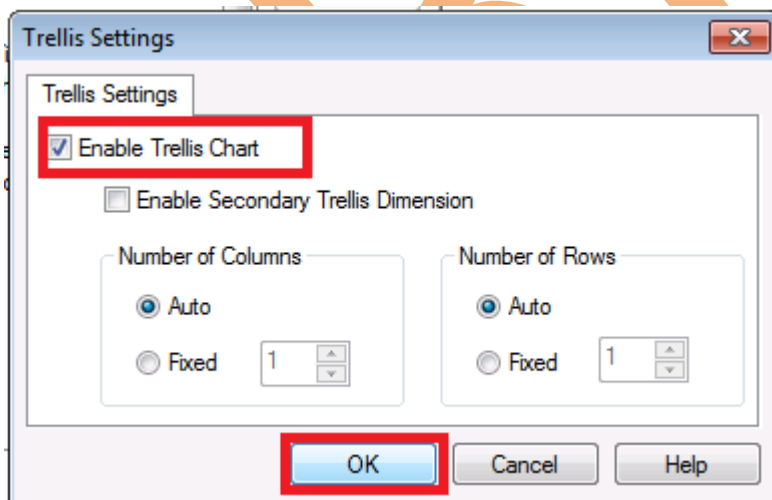


Trellis Chart :

In the Radar chart a option is available which will split the chart according to members available in the chart. To perform this come to the Dimensions tab then click on the Trellis option.



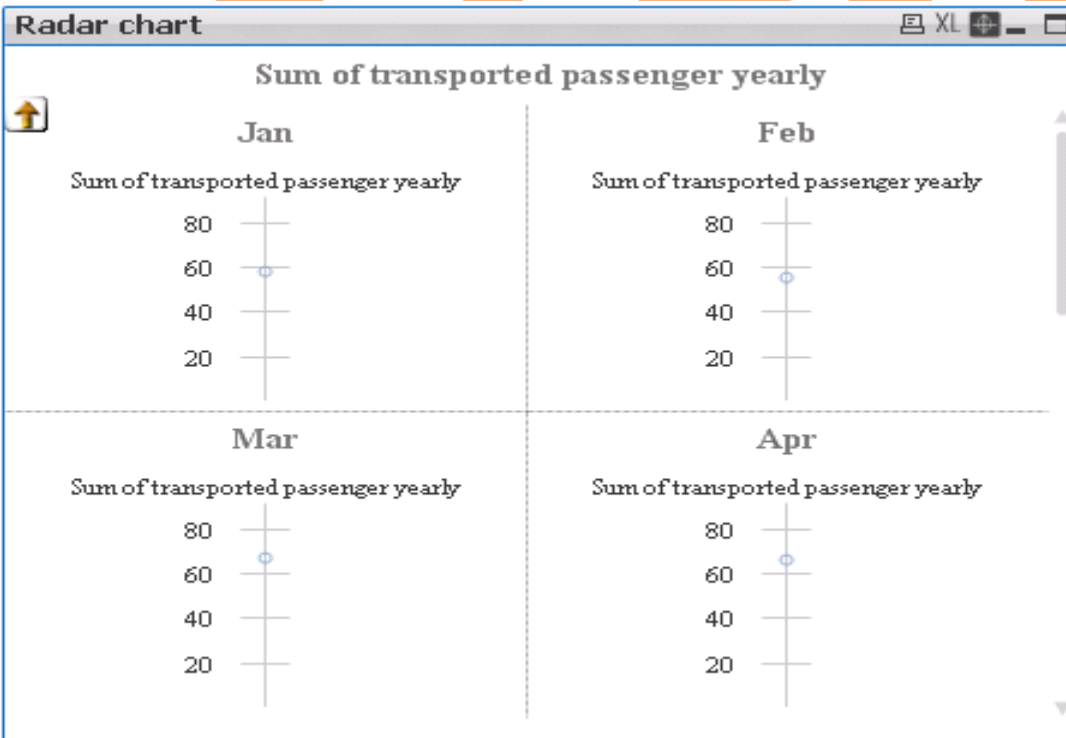
This will open the popup window->check the option Enable Trellis Chart then->ok



This will scattered the chart in the whole three years in the quadrants.



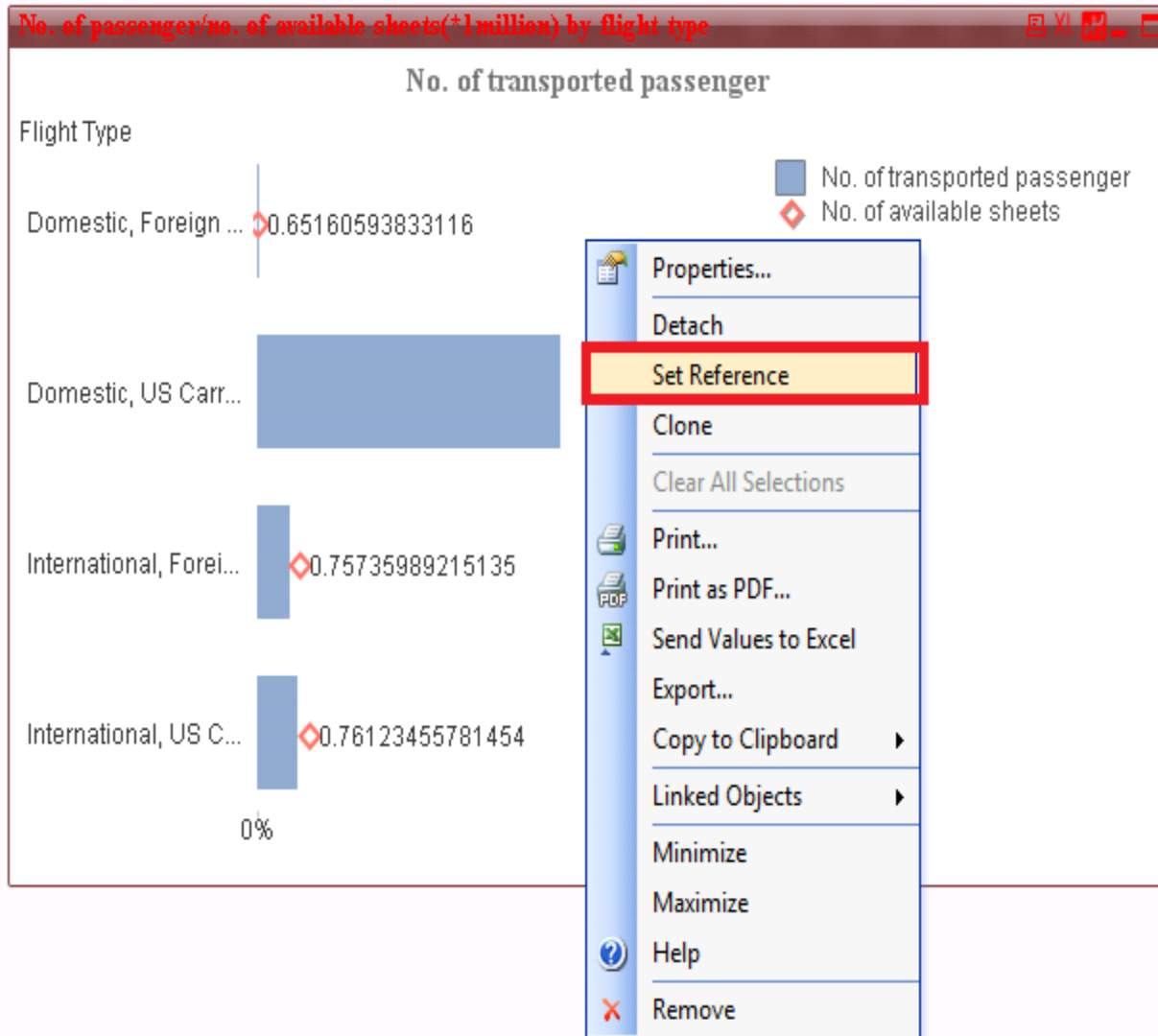
Here the result shown in the points as marked, we can explore the chart in the months by clicking on drill down group symbol.



Comparing the data in the chart (Setting References):

Suppose we have to compare the transported passenger year wise across a particular Flight Type. To do this right click on the chart and select "Set Reference".

2009 2010 2011

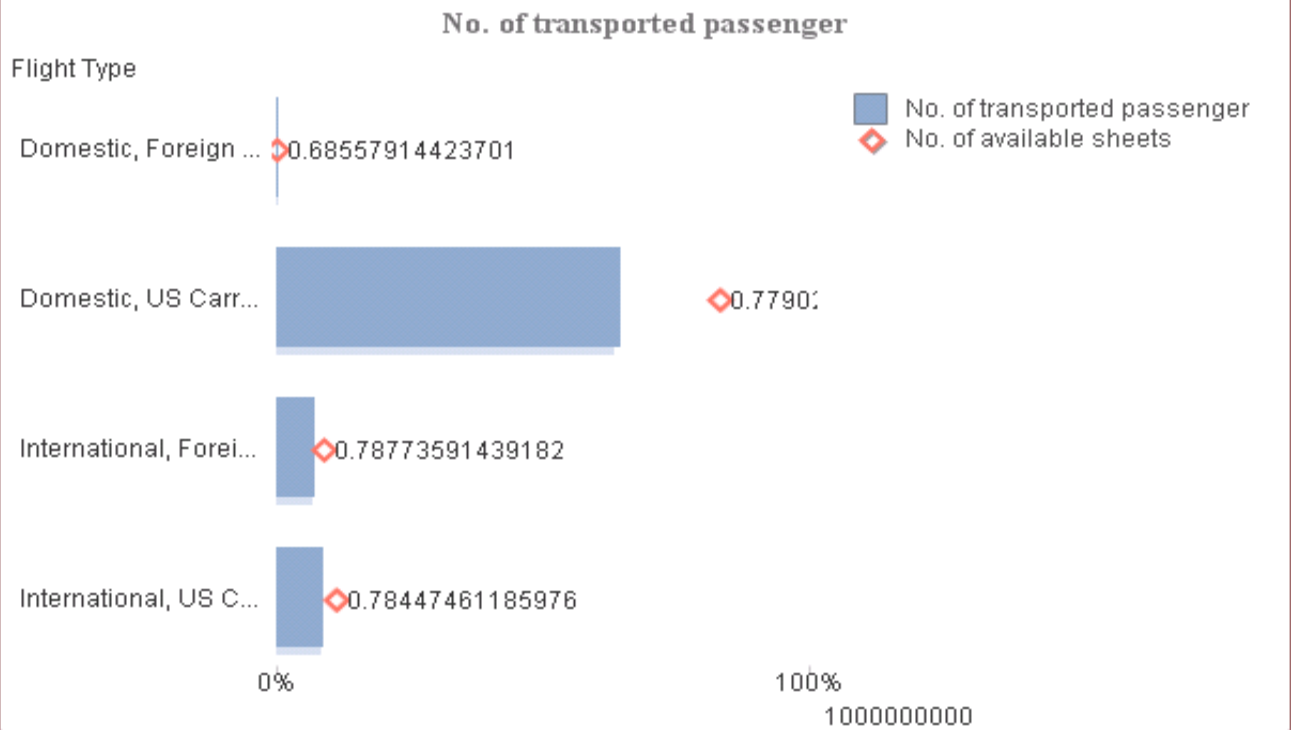


This is the record showing of the year 2009 then by applying set reference the points will be recorded. And when we see the sum of transported passengers in year 2010 we can clearly see the different with respect to the sum of transported passengers in 2009. Now select the year 2010.

Below the difference shown clearly.

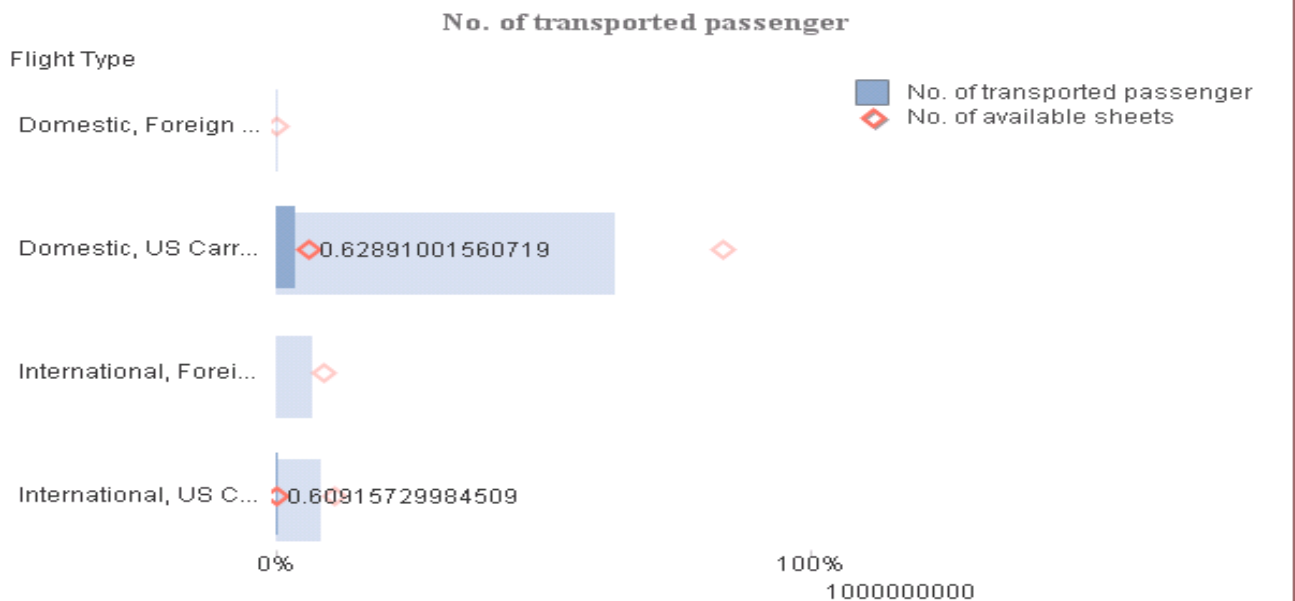
2009 **2010** 2011

No. of passenger/no. of available sheets(+1million) by flight type

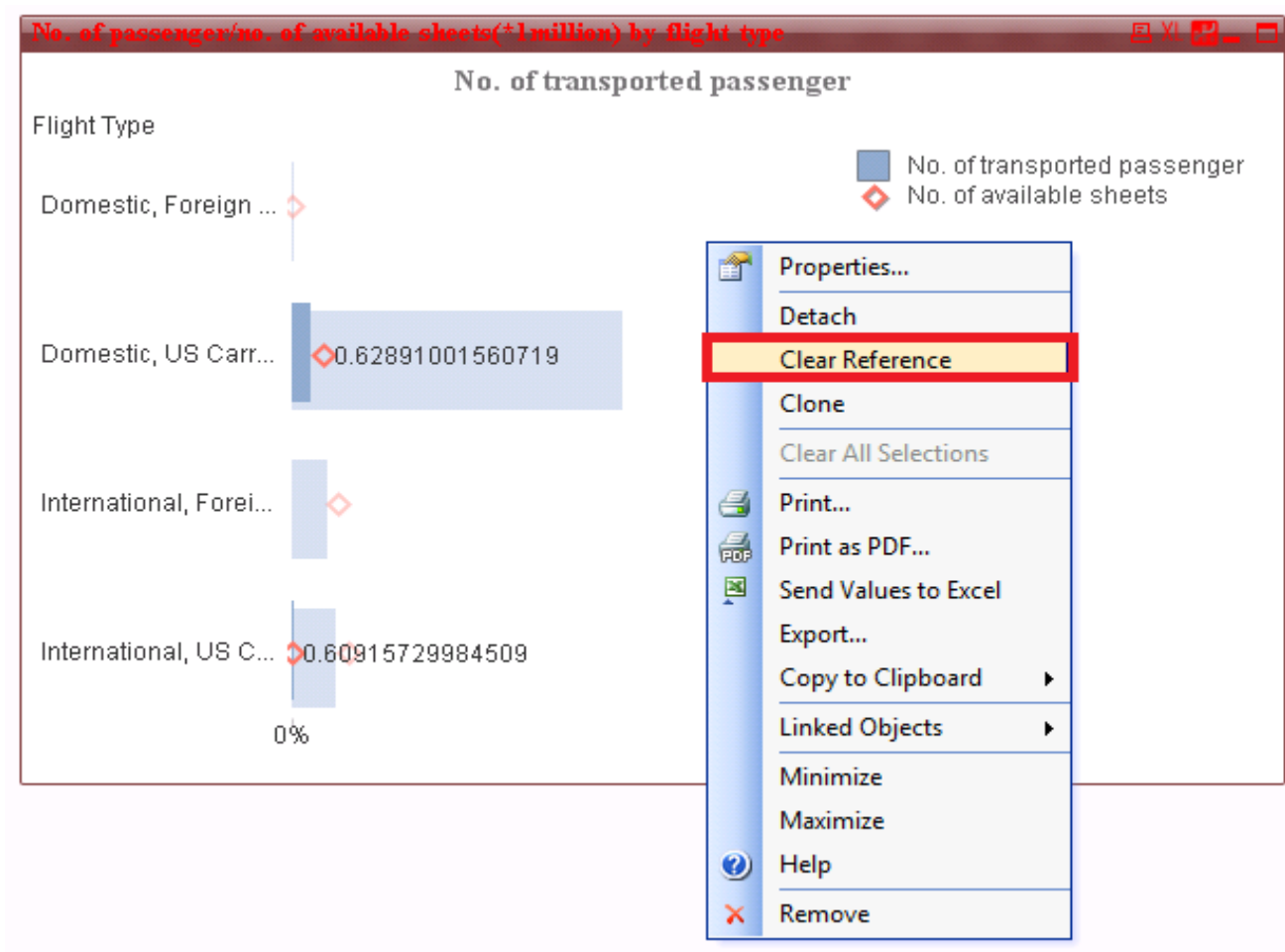


Select 2011 now, the difference shown more clearly.

No. of passenger/no. of available sheets(+1million) by flight type



We can clear the reference by right click on the chart > Clear Reference.



Using references, we can compare data across times (Year / Months).