Publicado por Henric Cronström 21-ene-2014

Six days thou shalt work, but on the seventh day thou shalt rest.

[Exodus 34:21]

The idea that you should rest on the seventh day is a central concept in both Christianity and Judaism. But *which weekday* is the seventh day of the week? *And which day is the first*?

The old texts of the Abrahamic religions clearly consider the Sabbath – Saturday – as the seventh day of the week. This day is also still today the resting day for Jews around the world. The same texts also describe how Adam was created on the sixth day, which is one of the reasons why Friday is the day of congregation and prayers for Muslims.

Hence, these two religions agree on the numbering of week days: Friday is the sixth day of the week and Saturday is the seventh.

However, in the rest of the world, the situation is more confusing: Although Sunday is observed as resting day in most countries, there is a disagreement on whether Sunday is the first or the seventh day of the week. In North America, Sunday is the first day of the week, but in many European countries it is the last day of the week. According to the International Organization for Standardization (ISO 8601), the week starts on a Monday, and Sunday is thus the seventh and last day of the week.

How weekdays are ordered makes a difference in all Business Intelligence applications, most notably in how list boxes and charts are sorted. Note the order of the week days in the list boxes below. In the left one, Sunday is on top of the list and in the right one it is Monday.

WeekDay	WeekDay
Sun	Mon
Mon	Tue
Tue	Wed
Wed	Thu
Thu	Fri
Fri	Sat
Sat	Sun

This difference can also be seen in calendar displays, used in many types of software and on many sites in the web. Again, note the order of the week days.

February 2014						
Su	Мо	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

February 2014

Мо	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

QlikView uses ISO 8601 to define the week days and the week start. WeekDay() returns the name of the week day (as defined in the variable DayNames) and a number from 0 to 6; Monday being day number 0. WeekStart() returns the date of the Monday immediately before the date supplied as parameter.

If you want redefine this, e.g. if you want QlikView to show Sunday as the first day of the week – here's how you do it:

Start by creating a variable that defines the beginning of the week:

Set vCal_FD = 6; // First Day of the week (0=Mon, 1=Tue, ..., 6=Sun)

The WeekStart() function has an offset parameter, and if you use your variable here, you can redefine how the function works and get the week start on the correct day:

WeekStart(Date, 0, \$(vCal_FD)) as WeekStart

The WeekDay() function, however, cannot take any offset parameter, so you need to define the week day using the Dual() function:

Dual(WeekDay(Date), Mod(WeekDay(Date - \$(vCal_FD)), 7) +1) as WeekDay

Using these two expressions in your Master Calendar instead of the standard function calls, you can redefine the week start to any of the week days.

HIC

1213 Vistas Etiquetas: weekstart, weekday, sunday, monday, iso_8601, week_start, week_day

30-ene-2014 23:41



Hi HIC Very useful Post .thank u!!!



25-ene-2014 10:02



Steve Dark Henric Cronströmen respuesta a on page 6

Prior period comparisons are always fraught with issues, yet everyone seems to put lots of store on them. One that is always common is comparing on month to the prior month, yet in retail or other sector where weekends you could be comparing a four weekend month with a five weekend month. Businesses where seasonality is a big issue (ice cream vendors?) they will factor this into comparisons, but then something will raise its head to mess it up - perhaps Easter which shifts around the calendar with a fair degree of movement. Week on week comparisons can be more robust, as each seven days will always have the same number of each days, but you have to be aware if someone selects to compare weeks in a specified month if you haven't coded to show weeks that **commence** in that month you could compare a whole week with a week that is truncated by the month end.

All of these things can be coded for, one way or another, and some businesses will have ways that they approach prior periods that factor these things in (perhaps applying a weighting for weekday to smooth things out) but you do need to be very careful when presenting these comparisons in black and white (or Red and Green if you highlight variance).

Fortunately QlikView has a number of functions, such as the ones Henric has highlighted, that make it easier to deal with these things.

Steve

24-ene-2014 9:42 _____ paul yeo

HIC nice post , Now i understand why my iphone month calendar start from sunday and my sumsung note 3 calendar start from monday. Paul

23-ene-2014 7:56



Christian Conejero Henric Cronströmen respuesta a on page 6

That's very interesting. Somehow my idea is simpler. It goes with QlikView philosophy, simplify your life, and your boss life,...

Now, what would be complicated is having both at the same time.

But the simplest of simplest is not to analize by the week.

23-ene-2014 4:50 Henric Cronström Christian Conejero*en respuesta a on page* 6

There have been a couple of experiments with alternative calendars, e.g. in France after the revolution - The French Republican Calendar - and in Soviet Union after the revolution - The Soviet Calendar. Both ended because the public support wasn't really there. So, I think we will need to stick to the Gregorian calendar and the 7-day week for yet some time.

HIC

23-ene-2014 4:38 Christian Conejero

History is not an exact science.

History is written for those who won the wars.

Week analysis is a pain on the neck. It's so difficult to compare with last year week. 7 is a prime number, it does not match with anything.

What I'd do? A whole new completely economical calendar.

12 months of 30 days =360 days.

5 weeks of 6 days. Mon, Tue, Wed, Fri, Sat, Sun * 6 = 30 days.

+

a 5 or 6 days month long, Thu, Thu, Thu, Thu, Thu, Thu, which will be used for spiritual retirement. No economic activity those 5 days. Buy everything in advance and blah, blah...

Only hospitals, minimun services.

Then, we will have a nice and easy week analysis.

It's boring but efective.

It's not restricted by any religion but it fullfils with all.

Fisrt of January wil be always Monday.

22-ene-2014 11:34



Sudeep Mahapatra

Very nice and interesting post with a great background. Thanks a lot HIC.

21-ene-2014 11:02 David Young Henric Cronström*en respuesta a on page 8*

Hi HIC,

I posted my question to the wrong post. I have added my question to the Master Calendar question I had out there already. If you can respond to that one instead that would be awesome.

David



Bookmarked!! thanks HIC



Steve Dark Henric Cronströmen respuesta a on page 8

I shall look out for that one!



Steve

The problem around Week Numbers will come in an other post...

HIC

21-ene-2014 8:48 Car Bal

Thanks once more HIC.

Dates are always a problematic data.

CB.



Thanks for posting Henric.

The other difference that comes about is what WeekNumber any given date falls into. I believe to resolve this shifting the date you are checking for by the correct number of days can shift week number correctly, eg:

Week(Date+1) as [Week No],

WeekYear(Date+1) & '-' & Week(Date+1) as [Year Week],

As you say, encapsulating this into your Master Calendar makes a lot of sense.

The one could be replaced by a calculation based on your First Day variable as well, if required.

Steve

http://www.quickintelligence.co.uk/qlikview-blog/

21-ene-2014 7:48



Thank you Henric. You have helped me out with questions I had on Master Calendar before. I have it in different responses and want to put it all together. I was wondering if you could help me out providing me an example that combines all the steps together when creating a Master Calendar. The best way, variables, etc. I am going to give you the scenario and if you can fill in the gaps that would be awesome. I have included some comments about the field in bold but they are not in script.

GOAL: To have three charts. One for each of the Date Fields from my Load Statement. The charts would be how many new IP's were created, how many IP's had their first training session, and how many IP's did we have go live. We might have 10 IP's created, 15 IP's had their first training session, and 4 IP's went live. The 15 IP's is strictly looking at the "Initial_Training_Scheduled_For__c" so it is capturing the actual number of trained IP's for that month regardless of when those IP's we created.

I hope this makes sense.

Here is my Load Statement:

Accounts:

LOAD Id as AccountId,

Name as OrganizationName,

Industry

FROM

Account.qvd

(qvd);

ImplementationPlans:

LOAD Id as IPID,

CreatedDate, //This is the date the IP was Created//

Initial_Training_Scheduled_For__c, //This is the date the IP was first Trained//

Go_Live_Date__c //This is the date the IP was Live//

FROM

Implementation_Plan.qvd

(qvd);

MasterCalendarIPCreate:

LET vDateMin = Num(MakeDate(2012,1,1));

LET vDateMax = Floor(YearEnd(AddMonths(Today(), 12)));

LET vDateToday = Num(Today());

TempCalendar:

LOAD

\$(vDateMin) + RowNo() - 1 AS DateNumber,

Date(\$(vDateMin) + RowNo() - 1) AS TempDate

AUTOGENERATE 1

WHILE \$(vDateMin)+IterNo()-1<= \$(vDateMax);

MasterCalendar:

LOAD

TempDate AS CreatedDate,

Month(TempDate) AS CalendarMonth,

Year(TempDate) AS CalendarYear,

Month(TempDate) & '-' & Year(TempDate) AS CalendarMonthAndYear

RESIDENT TempCalendar ORDER BY TempDate ASC;

DROP TABLE TempCalendar;

MasterCalendarIPCreate:

LET vDateMin = Num(MakeDate(2012,1,1));

LET vDateMax = Floor(YearEnd(AddMonths(Today(), 12)));

LET vDateToday = Num(Today());

TempCalendar:

LOAD

\$(vDateMin) + RowNo() - 1 AS DateNumber,

Date(\$(vDateMin) + RowNo() - 1) AS TempDate

AUTOGENERATE 1

WHILE \$(vDateMin)+IterNo()-1<= \$(vDateMax);

MasterCalendar:

LOAD

TempDate AS Initial_Training_Scheduled_For__c,

Month(TempDate) AS CalendarMonth,

Year(TempDate) AS CalendarYear,

Month(TempDate) & '-' & Year(TempDate) AS CalendarMonthAndYear

RESIDENT TempCalendar ORDER BY TempDate ASC;

DROP TABLE TempCalendar;

MasterCalendarIPLive:

LET vDateMin = Num(MakeDate(2012,1,1));

LET vDateMax = Floor(YearEnd(AddMonths(Today(), 12)));

LET vDateToday = Num(Today());

TempCalendar:

LOAD

\$(vDateMin) + RowNo() - 1 AS DateNumber,

Date(\$(vDateMin) + RowNo() - 1) AS TempDate

AUTOGENERATE 1

WHILE \$(vDateMin)+IterNo()-1<= \$(vDateMax);

MasterCalendar:

LOAD

TempDate AS Go_Live_Date__c,

Month(TempDate) AS CalendarMonth,

Year(TempDate) AS CalendarYear,

Month(TempDate) & '-' & Year(TempDate) AS CalendarMonthAndYear

RESIDENT TempCalendar ORDER BY TempDate ASC;

DROP TABLE TempCalendar;

I believe I have correct syntax for the above Load Statement. I have included a copy of my Dashboard view to help you out.

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- 1. I created a ListBox for Industry (I used the Industry Field)
- 2. I created a ListBox for Years (I used the CalendarYear Field)
- 3. I created a ListBox for Months (I used the CalendarMonth Field)
- 4. The charts are for the three date fields I want to return results on:
 - a. Total IP's Created
 - b. Total IP's First Training
 - c. Total IP's Live

This is where I am still a little confused. How do I show results based on The Year, The Month, or Both depending on what options are selected? My guess is through the Dimension and the Expression on each of the charts but not sure what it would look like. I have tried different ones and must be using the wrong fields or calculations. Can you give me some insight?

Thanks

David



21-ene-2014 6:07

Clever Anjos

Thank you Henric, very enlightening as usual.

21-ene-2014 4:10 Naresh Bandari

interesting

thanks for posting....