## Qlikview 11 Workshop with ecraft data from special lecture sep 2015 RALF REHN

#### The target of the Workshop

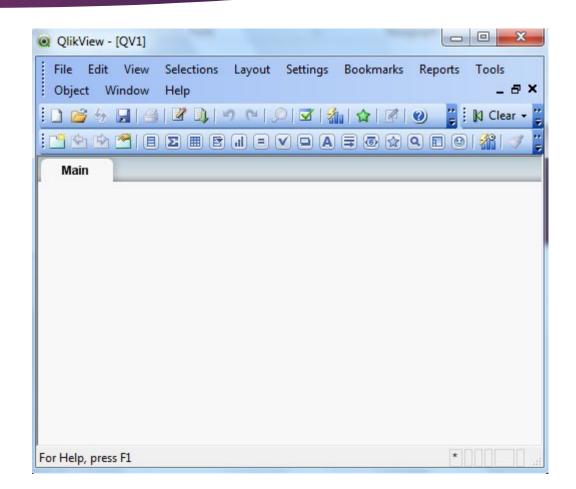
- To create a data model using the training material from the ECraft lecture (EXTRACT)
  - ► 5 Excel files
- To have the system create necessary relations
- To enhance analyzing by creating new fields (TRANSFORM)
  - Year
  - Month
- To create some analyzing objects
- To answer some business questions

### Things you need

- Download from Moodle the files
  - Salesdata
  - Customers
  - Customeraddress
  - Division
  - Region
- In Moodle also the corrected files
  - Customers\_corrected
  - Customeradress\_corrected

#### 1. Create a Qlikview 11 file

- Locate Qlikview 11 on the computer
- and start it
- ► File New
- Abort the wizard by Cancel
- You have a empty Qlikview file
- File Save give a location and name



## 3. Extract the files into Qlikview

- 3.a File Edit Script
- 3.b Choose Table files Locate file Open
- 3.c Check the settings depending on file and file structure
  - ► Excel file
  - Labels Embeddes labels (means first row headers)
- 3.d Either Finish or go thru next screens by Next until end
- 3.e Note the SQL statement in the script
- 3.f Rename the datasource by adding a row affer Directory end the name by : example Salesdata:
- 3.g Exit Edit script with Ok, IMPORTANT! before loading data FILE SAVE
- 3.h Read the datasource into memory by File Reload
- Check the your data model by File Table Viewer
- Repeat for all files

#### 3.a Editing the script

#### File - Edit Script

Ensure the cursor is on a empty row like in the picture

Choose **Table files** – Locate file – **Open** to add a new datasource to the model

1.1	SET	inousandsep=' ';
2	SET	DecimalSep=',';
3	SET	MoneyThousandSep=' ';
4	SET	MoneyDecimalSep=',';
5	SET	MoneyFormat='# ##0,00 €;-# ##0,00
6	SET	TimeFormat='h:mm:ss';
7	SET	DateFormat='D.M.YYYY';
		TimestampFormat='D.M.YYYY h:mm:ss
9	SET	MonthNames='tammi;helmi;maalis;hu
	1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	DayNames='ma;ti;ke;to;pe;la;su';
11	35	
12		
13	· ·	
14		
15		

## 3.c Check the settings

## Check the settings depending on file and file structure

- Excel file
- Labels Embeddes labels (means first row headers)

Either Finish or go thru next screens by Next until end

**NOTE:** Files Region and Division need change in settings to Embedded Labels

File Type	Tables	Head	ler Size						
⑦ Delimited	Sheet1\$	Non	None 👻 0 👘						
Fixed Record		Labe	s						
🔘 Dif		Embedded Labels							
Excel (xls)     Excel									
🔘 Excel (xlsx)	Actual Delivery Date	×	CustKey 🗙	DateKey					
🔘 Html			10000481	30.4.2009	_				
O Qvd			10002220	14.7.2009					
🔘 Xml			10002220	17.10.2009					
© Qvx			10002489	3.6.2009					
			10004516	27.5.2009					
			10004516	30.5.2009					
			10007866	3.9.2009					
			10009356	18.6.2009					
	<		10009356	18.6.2009	*				

#### 3.e Note the SQL statement in the script

The script contains now the instructions For reading the data from the source

The script can be altered to do Transformations on data Directory; LOAD [Actual Delivery Date], CustKey, DateKey, [Discount Amount], [Invoice Date], [Invoice Number], [Item Class], [Item Number], Item, [Line Number], [List Price], [Order Number], [Promised Delivery Date], [Sales Amount], [Sales Amount Based on List Price], [Sales Cost Amount], [Sales Margin Amount], [Sales Price], [Sales Quantity], [Sales Rep], [U/M] FROM

#### 3.f Rename the datasource

Rename the datasource

by adding a row after Directory End the name by :

- example Salesdata:

2 Directory; 3 Salesdata: 4 LOAD [Actual Delivery Date], 5 CustKey, 6 DateKey, 7 [Discount Amount],

This is done to easier identify the source when working with the model

#### 3.g Save File before contnuing

Exit Edit script with Ok

**IMPORTANT!** 

before loading data **FILE** – **SAVE** 

(If there is errors in script you could loose the changes since last Save)

# 43.h Load the data and check the data model

**Read** the datasources into memory (actually executes the script!)

by File - Reload

Check your data model

by File - Table Viewer

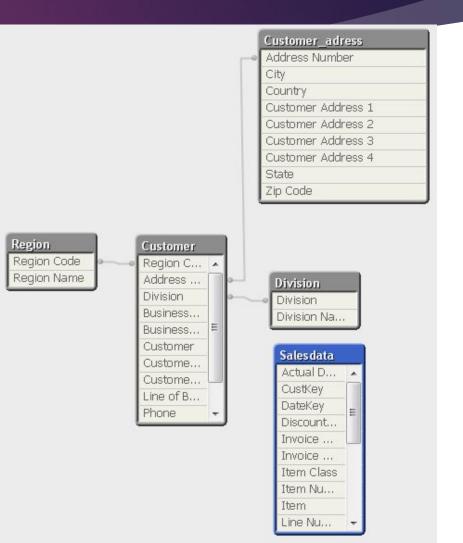
#### 4. The Data model after all files loaded

Qlikview created automatically the releationships based on **common field names** 

However as Salesdata and Customer do not have a common field 

No relation created

We need to edit the script



#### 5. Relate Salesdata and Customers

#### **Exercise - Transform**

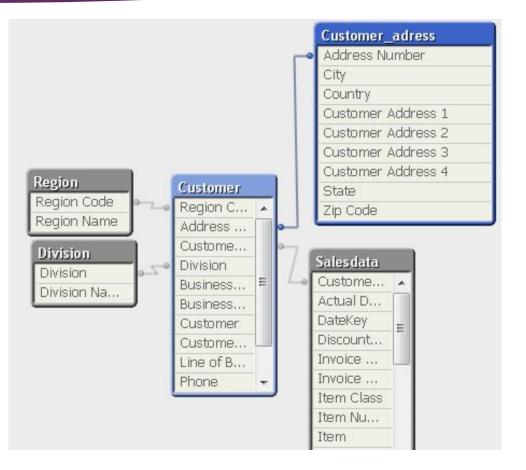
- Access the Table Viewer to check the current data model. Note that the Salesdata table is currently not linked
- Access the Script Editor
- Link the Sales and Customer Tables
  - Locate the field [Customer Number] in the Customer table and copy the name
  - Locate the field CustKey field in the Salesdata table and rename it Customer Number
- CustKey AS [Customer Number],

From Tuukka Sarkkis presentation material

# 6. Edit Script, Save ,Reload and check model again

#### pricecoil,

```
Salesdata:
LOAD [Actual Delivery Date],
CustKey as [Customer Number],
DateKey,
[Discount Amount],
```



#### 7. Add new calculated fields

- Create the Year and Month fields based on the [Invoice Date] using the Year and Month functions
  - Copy the [Invoice Date] in the Salesdata table
  - On a new line in the script type:
  - Year([Invoice Date]) as Year
  - Month([Invoice Date]) as Month

From Tuukka Sarkkis presentation material

#### 8. Change the script

```
Directory;
Salesdata:
LOAD [Actual Delivery Date],
CustKey as [Customer Number],
DateKey,
[Discount Amount],
[Invoice Date],
Year([Invoice Date]) as Year,
Month([Invoice Date]) as Month,
[Invoice Number],
[Item Class].
```

**Note** this is standard SQL query language check for instance out <u>http://www.w3schools.com/sql/</u>

#### 9. The datamodel is ready

After Save and Reload

#### The business question

- How much has
  - ► The Customer "A1 Store"
  - bought
  - In June 2008
  - of Item "Even Better Blueberry Yogurt"
- ► ŚŚ
- Answer = Even Better Blueberry Yogurt 18870,57

#### 10. Analyzing the data

- Add objects to the sheet
- Add sheets if wanted
- Save in between
- You can reset all filters with
- Clear in the ment



### 10. Analyzing the data

#### **Exercise-Interface**

#### Exercise - Listboxes as Calendar

- Right click in sheet and select option Select Fields
- Select Year and Month
- Access Properties Presentation and uncheck the single column option for both listboxes
- De-select Show Caption on the Captions tab
- Resize and place the two listboxes across the top of the sheet

#### From Tuukka Sarkkis presentation material

#### 10. Calendar options created

et

File	Edit	View	Selections	Layout S
10 🞽	4			9 (2) (2)
		210		) = V
Mair	1			
	20 20 20	09	tammi helmi maalis huhti touko kesä heinä elo syys loka marras joulu	

#### 10. Create Item/sales amount

- Right click on Sheet choose New Sheet Object Listbox
- Tab General
  - ► Title "Sales per Item"
  - In Field choose Item
- Tab Expressions
  - Add
  - Create formula sum([Sales Amount])
  - Press Ok
- Tab Number
  - Coose format Money
- Ok and resize object

Sales Per Item	م
American Beef Bologna	2730,18 🔺
American Chicken Hot Dogs	15242,09
American Cole Slaw	1584,69
American Corned Beef	384920,75
American Pimento Loaf	54702,82
American Potato Salad	45389,57
American Roasted Chicken	168402,37
American Sliced Ham	846,4
American Turkey Hot Dogs	1527,75
Applause Canned Mixed F	28458,88
Applause Canned Peaches	1400,5
Atomic Bubble Gum	26198,32
Atomic Mint Chocolate Bar	1321258,39
Atomic Mints	618,36
Atomic Semi-Sweet Choc	67461,36
Atomic Spicy Mints	157684,62
Atomic Tasty Candy Bar	2352,86
Atomic White Chocolate Bar	655,22
BBB Best Apple Butter	164929,66
	1100.00

#### 10. Add Customer , Region name , Division name

- Leave the caption
- Move and resize objects

Region Name	P
Canada	
Central	
International	
Northeast	
Southern	
Western	
Division Name	٩
Domestic	
International	
Customer	۶
A-2-Z Supermarket	1.1
A-ARVIN Store	
A Supermarket	
A&B Shop	
A&G Shop	
A&R Market	
0.1 Store	

File Edit Vie	ew Selectio		s Bookn	and the second	Tools (		Window Back 🕲 F	Help	<b>a</b> 1
<u> </u>	ΞΣ.			<b>₽ ₽ 0</b>			: ‡‡ :9		7 <b>-</b>
Main 2008	tammi balmi	Customer	<i>۹</i> م	les Per Item	_	_	_	م	1
2009 2010	helmi maalis huhti touko kesä heinä elo syys loka marras joulu	A1 Store A-2-Z Supermarket A Supermarket A2Z Store AA-Wizard Shop Addast Shop Abbott Shop Abbott Shop ABI Supermarket ABSolute Shop Absolute Supermarket AC Store Acara Shop	Clu Clu Fal Go Go Re Tel Am Am	b Cheese Spread b Cheese Spread b Sharp Cheddar ( on Better Blueberry oulous Cream Soda den Beef TV Dinne den Chicken TV Dir d Spade Foot-Long Tale Sweet Onion erican Beef Bologn erican Chicken Hot erican Cole Slaw erican Corned Bee	y Yo a nner g Hot ha t Dogs		3 1887 400 26 26	30,4 03,6	
Region Name Canada Central International Northeast Southern Western	۹	ACCUCOMP Shop AccuLAN Shop Ace Market ACES Supermarket	Am Am Am Am Ap	erican Pimento Loa erican Potato Sala erican Roasted Ch erican Sliced Ham erican Turkey Hot plause Canned Mix plause Canned Pea	id iicken Dogs :ed F				
Division Name Domestic International	م <u>،</u>								

#### 

#### Main

Domestic International

2008 2009	tammi helmi	Customer	Sales Per Item	م	Sales Amount	
2010	maalis	A1 Store	Even Better Blueberry Yo	18870,57	Total count	2
2010	huhti	Cam-Built Supermarket	Club Cheese Spread	0	Sum	18870,57
	touko	Talarians	Club Sharp Cheddar Cheese	0	Average	9435,285
	kesä	A-2-Z Supermarket A-ARVIN Store	Fabulous Cream Soda	0	Min	1572,56
	heinä		Golden Beef TV Dinner	0	Max	17298,01
	elo	A Supermarket	Golden Chicken TV Dinner	0	The state of the s	17270,01
	syys	A&B Shop	Red Spade Foot-Long Hot	0		
	loka	A&G Shop	Tell Tale Sweet Onion	0		
	marras	A&R Market	American Beef Bologna	0		
	joulu	a2i Shop	American Chicken Hot Dogs	0		
		A2Z Store	American Cole Slaw	0		
	0	AA-Wizard Shop Aadast Shop	American Corned Beef	0		
			American Pimento Loaf	0		
Region Name	م	Aaron Store	American Potato Salad	0		
Canada		Aaron Supermarket	American Roasted Chicken	0		
Central		Abacus Market	American Sliced Ham	0		
International		Abbotsbury Shop	American Turkey Hot Dogs	0		
Northeast			Applause Canned Mixed F	0		
Southern			Applause Canned Peaches	0		
Western			n' selle	_ Y		
Division Name	P					

Statistics box added

#### Reloading corrected files

- Save
- Locate correct files and change the reference in the script
  - Regards to Customer
  - Regards to Customeraddress
- The reload and if Ok then Save !

#### 11. Correct the reference

```
[Search Type]
FROM
[..\___b_New_Intro_course\ECraft\HeliaDemo\DATA\CUSTOMERS.xls]
(biff, embedded labels, table is [CUSTOMERS$])where exists ([Customer Number]);
    [Search Type]
FROM
[..\___b_New_Intro_course\ECraft\HeliaDemo\DATA\CUSTOMERS_corrected.xls]
(biff, embedded labels, table is [CUSTOMERS$])where exists ([Customer Number]);
```

Craft\HeliaDemo\DATA\CUSTOMERADDRESS.xls]
a is [CUSTOMERADDRESS\$]);

raft\HeliaDemo\DATA\CUSTOMERADDRESS\_corrected.xls]
is [CUSTOMERADDRESS\$]);

#### Additional Questions

- What products where sold the most in 2009? (Value)
- What Customer bought the most in 2008? (Value)

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