HW-6 QlikView BI Dashboard

Overview

This project assignment will give you a hands-on practice working with **QlikView Desktop Application** to create BI dashboard / visualization.

- Assignment points: 10 points or 10% toward your final grade.
- Due date: **7/15/2020, 11:59 pm**.
- Late submission: grace period of 2 days with 20% late penalty. After that time, assignment will NOT be accepted.
- This is open book exam and any kind of resource materials are allowed.
- Submission: submit your assignment in **PDF format in Canvas**.

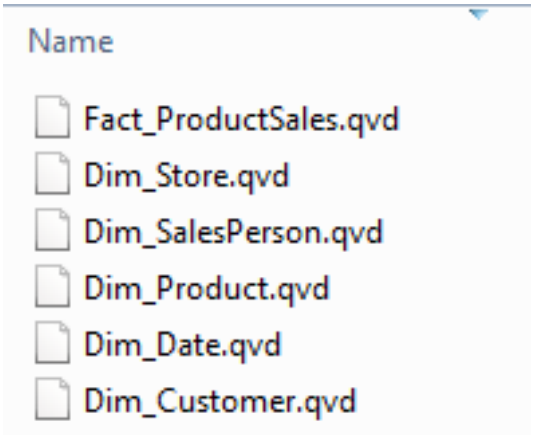
- You need to submit **Section 1, 2 and 3** output pdfs into canvas. You can submit 3 separate pdfs or one combined output into one pdf.

- You can save your QV output result as follows:

File - Print Sheet – select printer as Abode PDF – Print - Save your pdf.

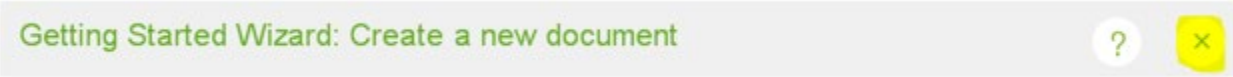
Data Input

Please download below **6 QVD files from Canvas**. These QVD files were created from HW-5 DW database using MySQL ODBC connection. These are your input files for this project assignment.



Please follow below steps to complete this assignment:

Open Qlikview application
Go to File – New (or, Ctrl + N or, use menu icon)
Close Wizard pop-up with clicking X



Save file as '**QV_Sales_DW.qvw'** in your local machine.

- Open Edit Script (Ctrl + E or use menu icon)
- Add a new Tab and name as '**Data Load**'

- Load QVDs as follows:

Click on 'Table Files ..'
Select '**Fact_ProductSales.qvd**'
Click 'Open'
Make sure file type 'Qvd' is selected and click 'Finish'
This will create scrips as below.
Make sure to give table name on the **TOP** of the scripts ends with colon (**:**)

Fact_ProductSales:

```
Directory;
LOAD
        TransactionId,
        SalesInvoiceNumber,
        DateKey,
        StoreID,
        CustomerID,
        ProductKey,
        SalesPersonID,
        ProductCost,
        SalesPrice,
        Quantity
FROM
DataSource\Fact_ProductSales.qvd (qvd);
```

Load rest of the QVDs in similar way and give table name on the **TOP** of the scripts ends with colon (**:**)

Dim_Product:
Dim_Customer:
Dim_Store:
Dim_SalesPerson:
Dim_Date:

Add **EXIT SCRIPT;** at the end of your scripts

Save file and Reload (Ctrl + R or use menu icon)

Let me know if you've any issues on LOAD statements.
Once all load statement successfully completed, all tables with data from HW-5 DW will be available into QlikView application.

Section 1: Total Points: 2

a. Review your **data model from table viewer**, re-align tables so that all tables and columns are fully visible as per star schema, as shown below in **Appendix – 1**.

To save your output: From menu, Print and save data model as QV_DataModel.pdf.

Section 2: Total Points: 5

Rename 'Main' Sheet to '**Tables'** and create tables as shown below in Appendix – 2.

a. Create filters using **multi-box** and current selections box as in appendix – 2.
b. Add Year and Month **list box** at the top as in appendix – 2.
c. Create **Table Box** and **Pivot Table** objects as in appendix – 2.

Select CustomerName = **Elon Musk**
Select Year = **2017** and MonthShort = **Jan**

To save your output: From menu, File - Print Sheet – Print and save as QV_Tables.pdf.

Section 3: Total Points: 3

Add Sheet and name as '**Charts'** and create charts as shown below in Appendix – 3.

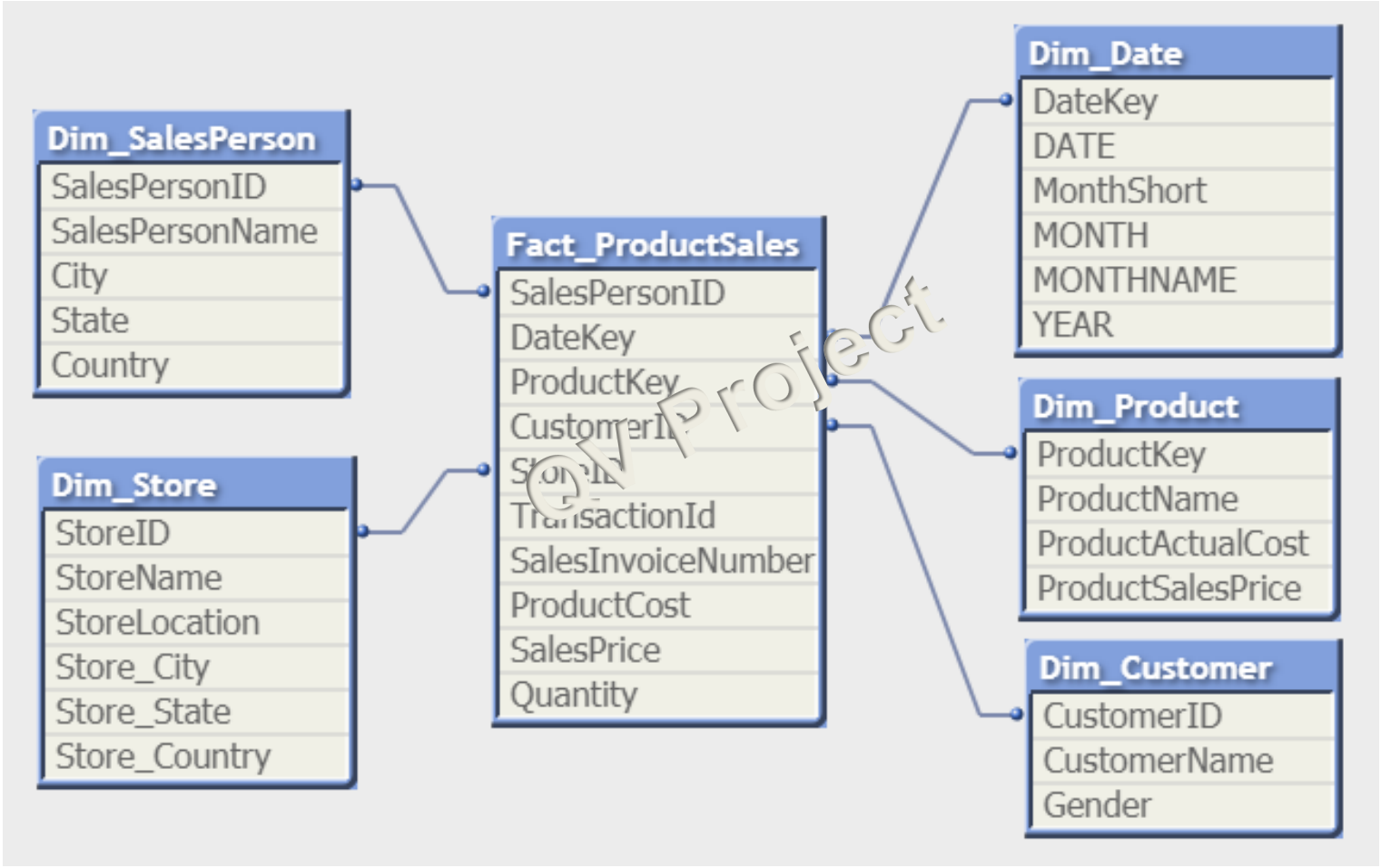
a. Copy filters, current selections, Year and Month list boxes from 'Tables' tab.
b. Create **Bar Chart** and **Pie Chart** objects as shown in appendix – 3

   Make sure your filters are still selected:
   Select CustomerName = **Elon Musk**
   Select Year = **2017** and MonthShort = **Jan**

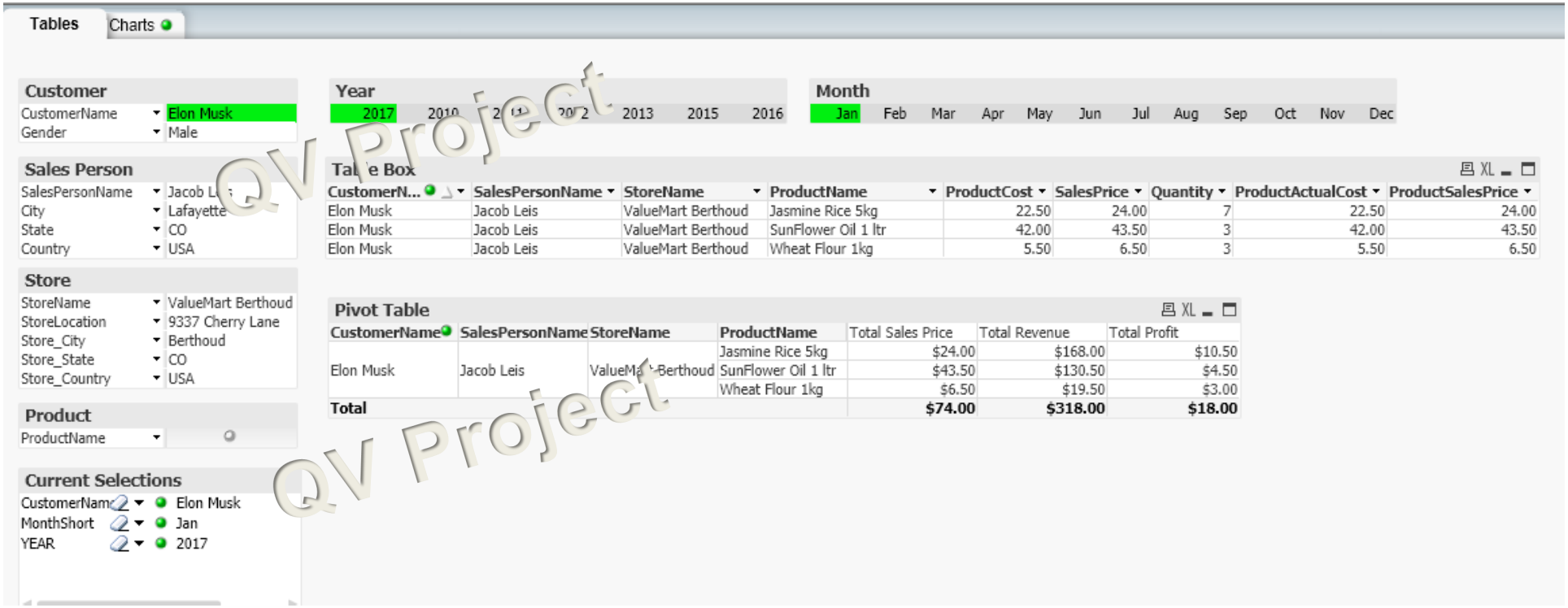
To save your output: From menu, File - Print Sheet – Print and save as QV_Charts.pdf

Note: Object size and colors do not need to match. However, your all objects, headings and texts need to be clearly visible.

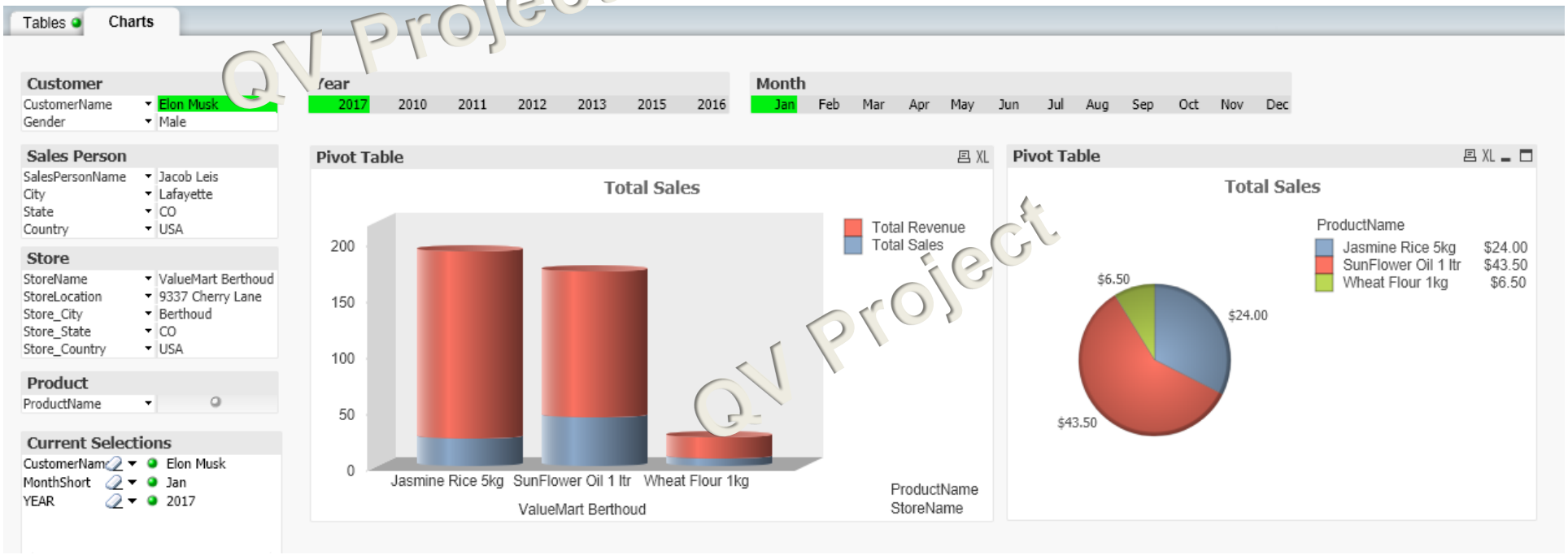
Appendix – 1


Dim_SalesPerson
SalesPersonID
SalesPersonName
City
State
Country
Dim_Store
StoreID
StoreName
StoreLocation
Store_City
Store_State
Store_Country
Fact_ProductSales
SalesPersonID
DateKey
ProductKey
TransactionId
SalesInvoiceNumber
ProductCost
SalesPrice
Quantity
Dim_Date
DateKey
DATE
MonthShort
MONTH
MONTHNAME
YEAR
Dim_Product
ProductKey
ProductName
ProductActualCost
ProductSalesPrice
Dim_Customer
CustomerID
CustomerName
Gender

Appendix – 2


Tables
Charts
Customer
CustomerName Elon Musk
Gender Male
Year
2017 2010 2012 2013 2015 2016
Month
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Sales Person
SalesPersonName Jacob L
City Lafayette
State CO
Country USA
Table Box
CustomerN... SalesPersonName StoreName ProductName ProductCost SalesPrice Quantity ProductActualCost ProductSalesPrice
Elon Musk Jacob Leis ValueMart Berthoud Jasmine Rice 5kg 22.50 24.00 7 22.50 24.00
Elon Musk Jacob Leis ValueMart Berthoud SunFlower Oil 1 ltr 42.00 43.50 3 42.00 43.50
Elon Musk Jacob Leis ValueMart Berthoud Wheat Flour 1kg 5.50 6.50 3 5.50 6.50
Store
StoreName ValueMart Berthoud
StoreLocation 9337 Cherry Lane
Store_City Berthoud
Store_State CO
Store_Country USA
Pivot Table
CustomerName SalesPersonName StoreName ProductName Total Sales Price Total Revenue Total Profit
Elon Musk Jacob Leis ValueMart Berthoud Jasmine Rice 5kg $24.00 $168.00 $10.50
SunFlower Oil 1 ltr $43.50 $130.50 $4.50
Wheat Flour 1kg $6.50 $19.50 $3.00
Total $74.00 $318.00 $18.00
Product
ProductName
Current Selections
CustomerName Elon Musk
MonthShort Jan
YEAR 2017
QV Project
QV Project

Appendix – 3



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