# 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: **11/19/2020, 11:59 pm**.
- No late submission.
- 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.

Name

- Fact_ProductSales.qvd
- Dim_Store.qvd
- Dim_SalesPerson.qvd
- Dim_Product.qvd
- Dim_Date.qvd
- Dim_Customer.qvd

**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

Getting Started Wizard: Create a new document                    ?    ×

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
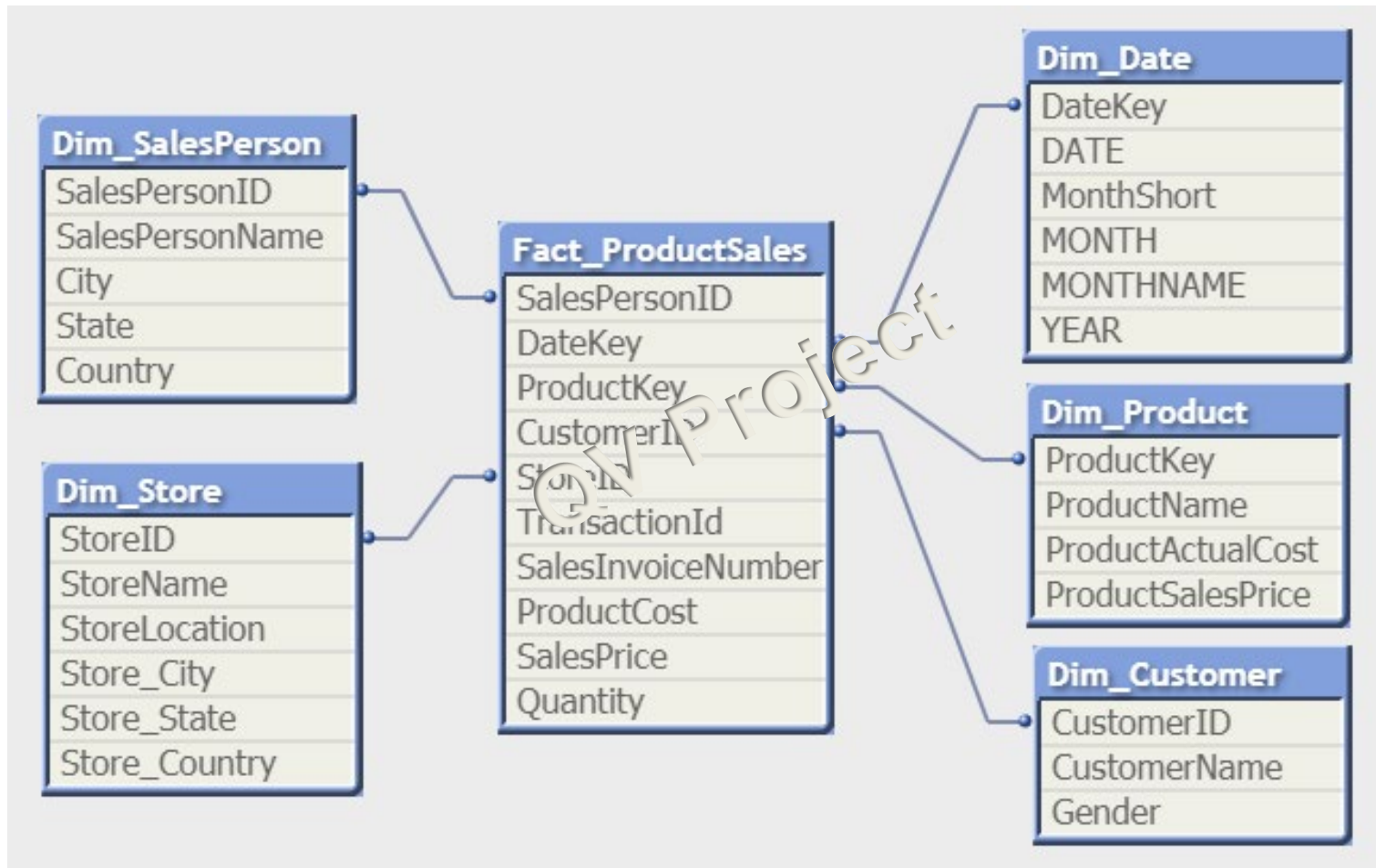
Appendix – 2



Tables   Charts

**Customer**
| CustomerName | Elon Musk |
|---|---|
| Gender | Male |

**Year**
2017  2010  2011  2012  2013  2015  2016

**Month**
Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

**Sales Person**
| SalesPersonName | Jacob Leis |
|---|---|
| City | Lafayette |
| State | CO |
| Country | USA |

**Store**
| StoreName | ValueMart Berthoud |
|---|---|
| StoreLocation | 9337 Cherry Lane |
| Store_City | Berthoud |
| Store_State | CO |
| Store_Country | USA |

**Product**
| ProductName | |
|---|---|

**Current Selections**
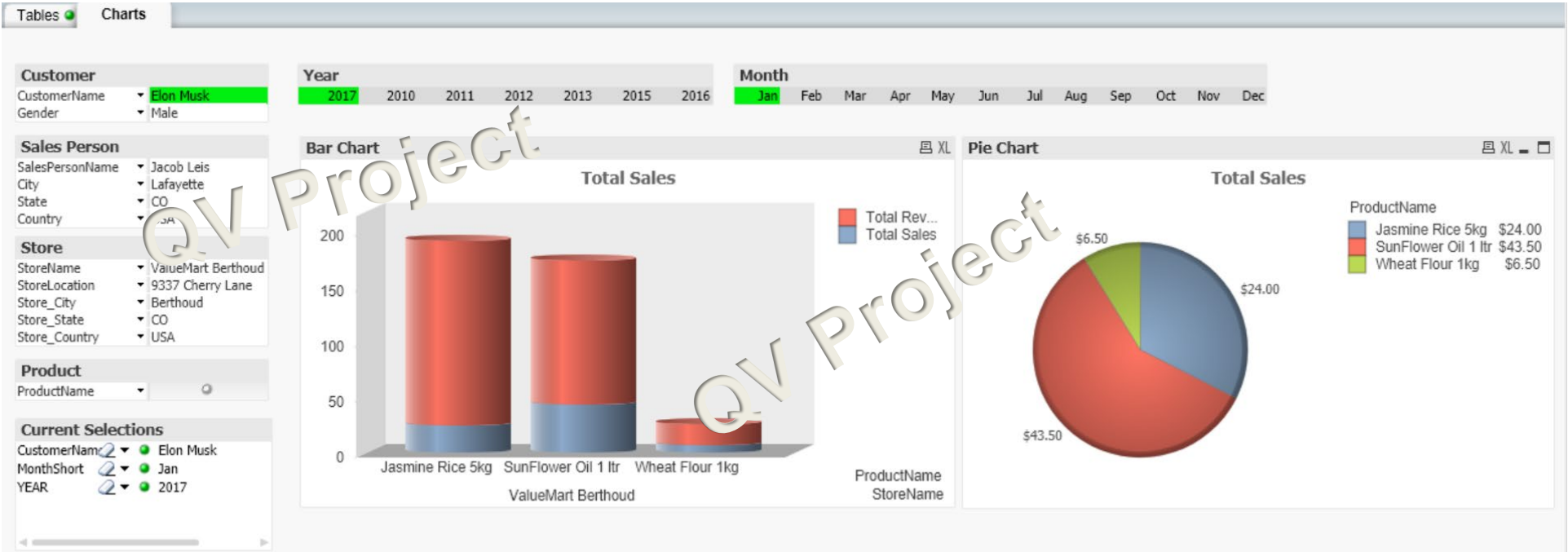| CustomerName | Elon Musk |
|---|---|
| MonthShort | Jan |
| YEAR | 2017 |

**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 |

**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** |

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Appendix – 3



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