

## 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 scripts 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:

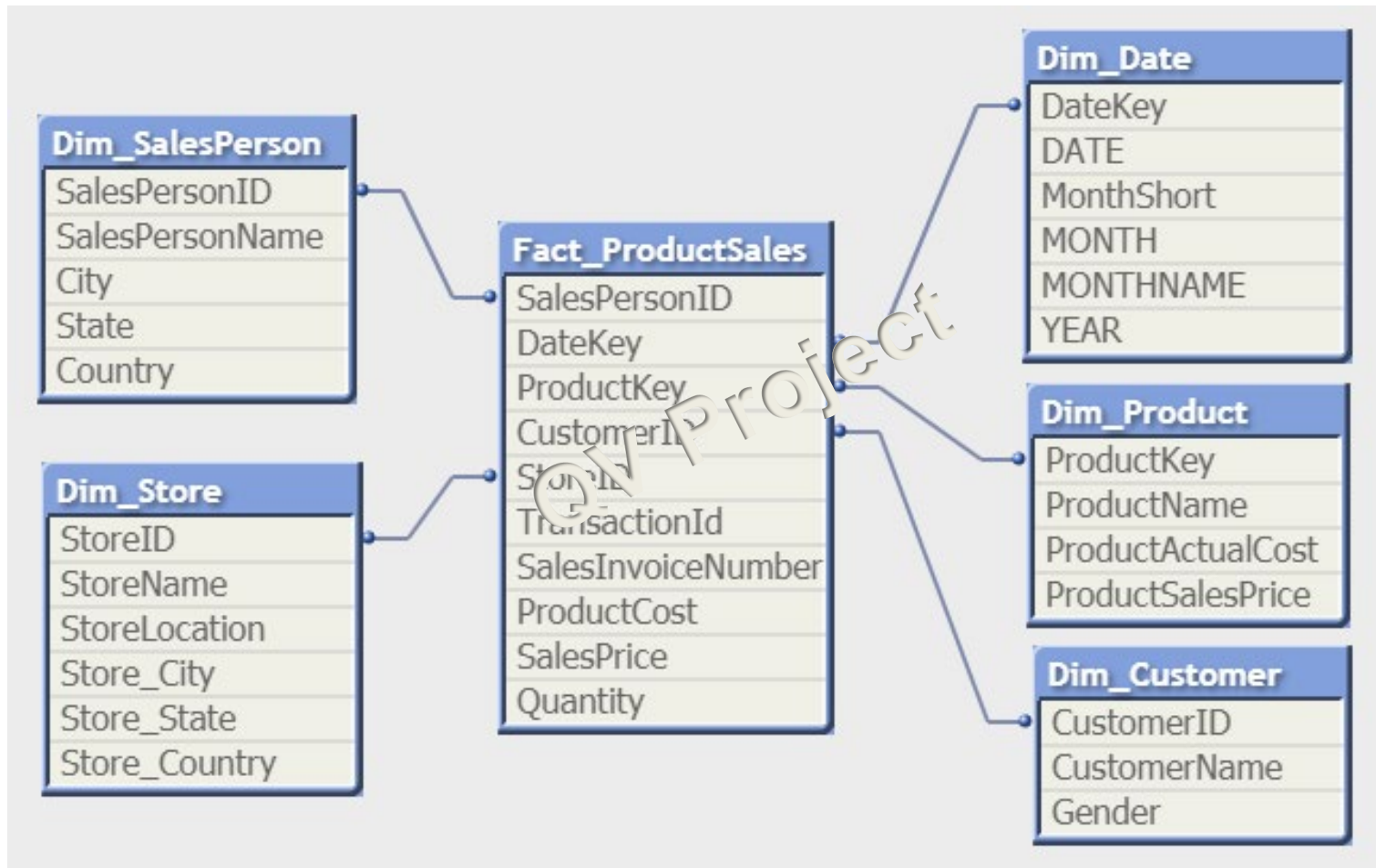
Select CustomerName = **Elon Musk**

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

QV Project

Tables Charts

**Customer**

CustomerName ▾ **Elon Musk**

Gender ▾ Male

**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**

**Year**

**2017** 2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 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**Month**

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

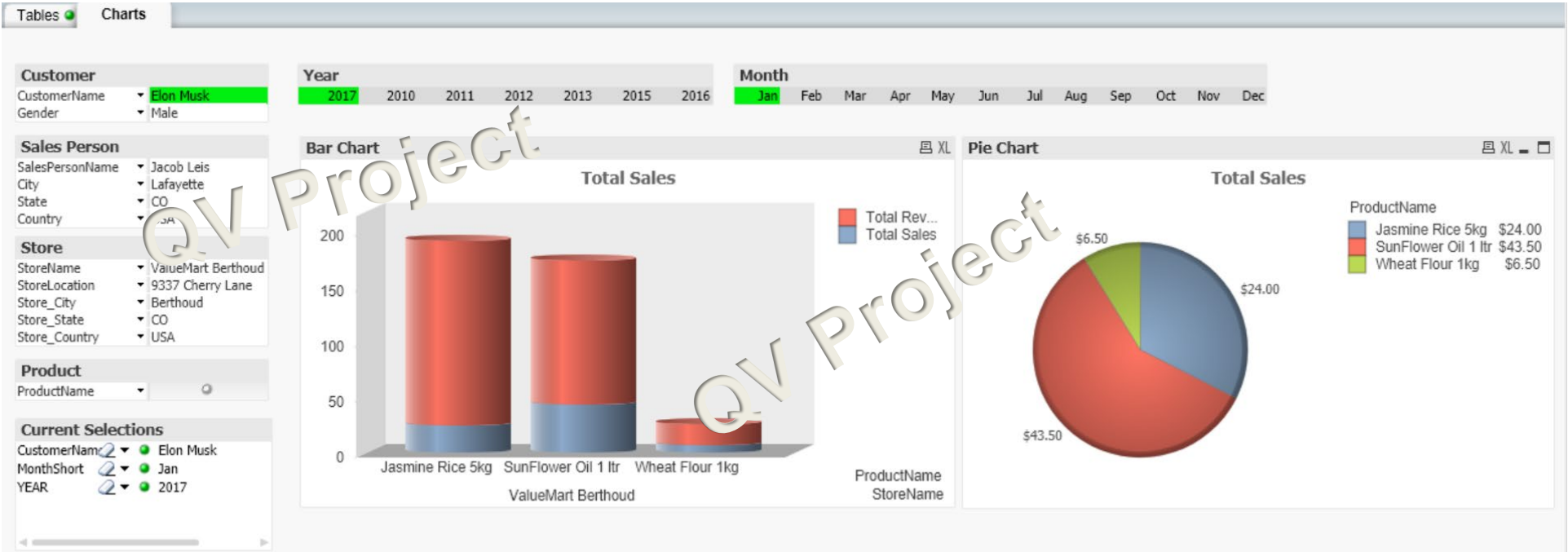
**Table Box**

CustomerName	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
<b>Total</b>				<b>\$74.00</b>	<b>\$318.00</b>	<b>\$18.00</b>

Appendix – 3



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