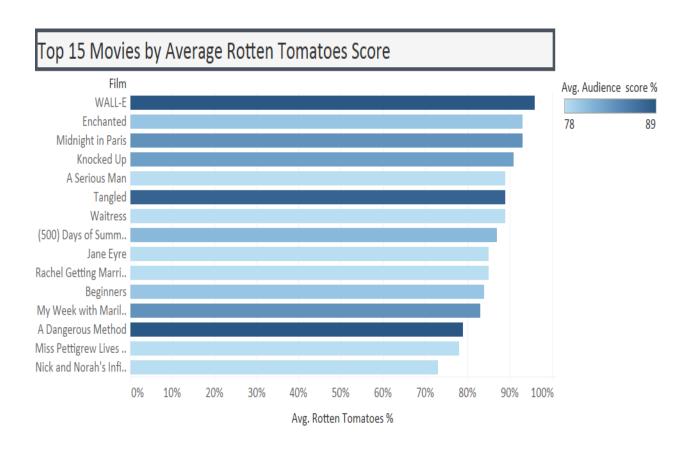
Fall 2017

ACCT / MIS 6309 Business Data Warehousing Lab #1

Data Visualization for Business Intelligence using Tableau

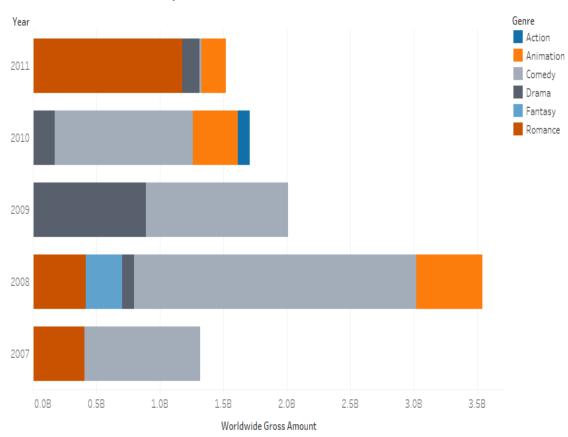
Prateek Rawat

Creating a Bar Chart

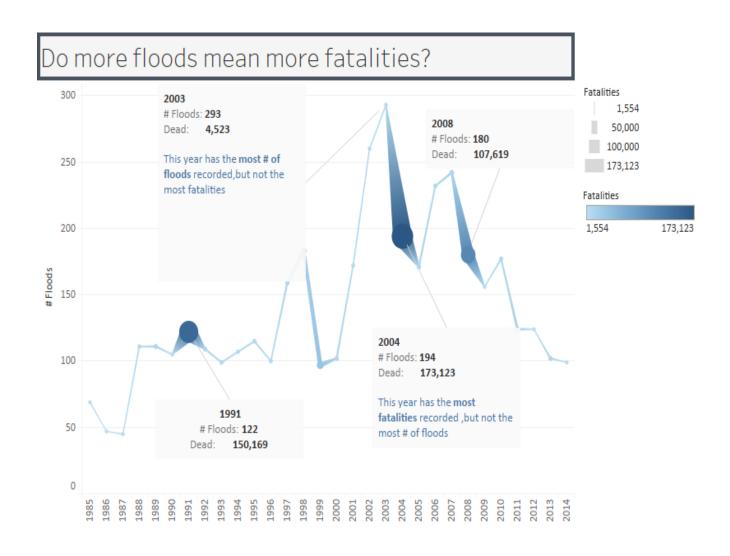


Chapter 1 – Basic Charts Creating a Stacked Bar Chart

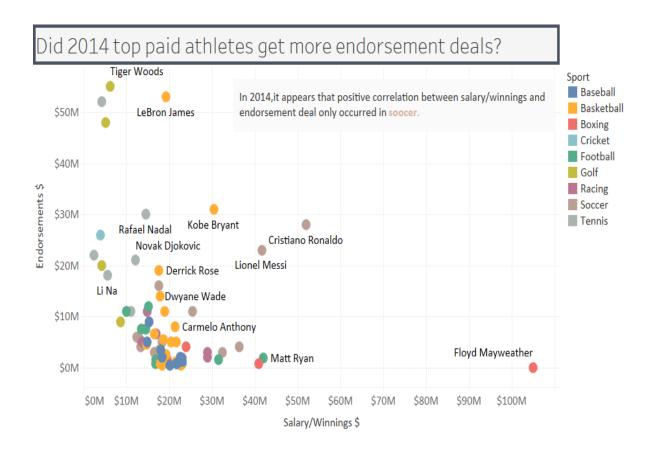
Movie Worldwide Gross by Genre from 2007-2011



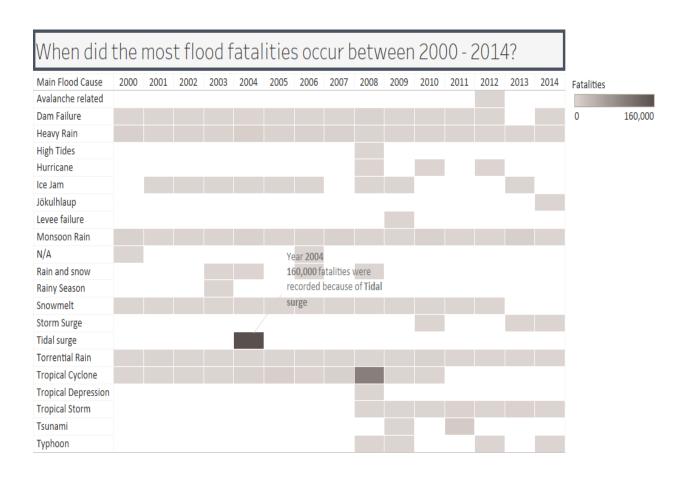
Creating a line Chart



Creating a Scatter Plot



Creating a Heat Map



Creating a Text Table

Top 20 Movies from 2007-2011 based on Worldwide Gross

Film	Year	Worldwide Gross A	Audience score %	Avg. Rotten Tomat	Avg. Profitability
The Twilight Saga: New Moon	2009	\$709,820,000	78%	27%	14
Twilight: Breaking Dawn	2011	\$702,170,000	68%	26%	6
Mamma Mia!	2008	\$609,473,955	76%	53%	9
WALL-E	2008	\$521,283,432	89%	96%	3
Sex and the City	2008	\$415,253,258	81%	49%	7
Twilight	2008	\$376,661,000	82%	49%	10
Tangled	2010	\$355,080,000	88%	89%	1
Enchanted	2007	\$340,487,652	80%	93%	4
The Proposal	2009	\$314,700,000	74%	43%	8
Sex and the City 2	2010	\$288,350,000	49%	15%	3
The Curious Case of Benjamin Button	2008	\$285,431,000	81%	73%	2
High School Musical 3: Senior Year	2008	\$252,044,501	76%	65%	23
It's Complicated	2009	\$224,600,000	63%	56%	3
What Happens in Vegas	2008	\$219,367,646	72%	28%	6
Knocked Up	2007	\$219,001,261	83%	91%	7
Valentine's Day	2010	\$217,570,000	54%	17%	4
Marley and Me	2008	\$206,073,000	77%	63%	4
The Ugly Truth	2009	\$205,300,000	68%	14%	5
Gnomeo and Juliet	2011	\$193,967,000	52%	56%	5
He's Just Not That Into You	2009	\$178,840,000	60%	42%	7
Grand Total		\$6,835,473,705	1,451%	52%	7

Creating a Highlight Table

Top 20 Movies from 2007-2011 based on Worldwide Gross

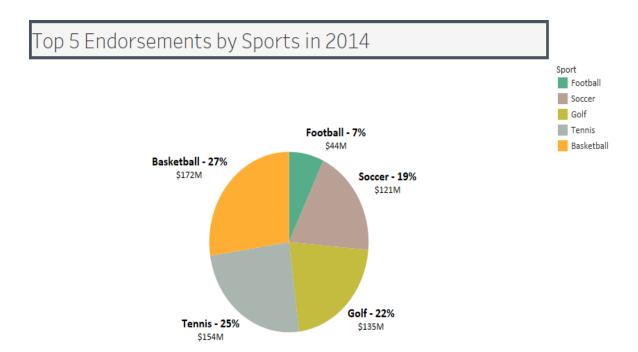
Film	Year	Worldwide Gross Amo	Avg. Audience score % A	lvg. Rotten Tomatoes %	Avg. Profitability
Enchanted	2007	\$340,487,652	80%	93%	4
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Tangled	2010	\$355,080,000	88%	89%	1
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The Twilig	2009	\$709,820,000	78%	27%	14
The Ugly	2009	\$205,300,000	68%	14%	5
Twilight	2008	\$376,661,000	82%	49%	10
Twilight:	2011	\$702,170,000	68%	26%	6
Valentine'	2010	\$217,570,000	54%	17%	4
WALL-E	2008	\$521,283,432	89%	96%	3
What Hap	2008	\$219,367,646	72%	28%	6
Grand Tota	I	\$6,835,473,705	73%	52%	7

Worldwide	Gross	Amo
	,	
179M		710M

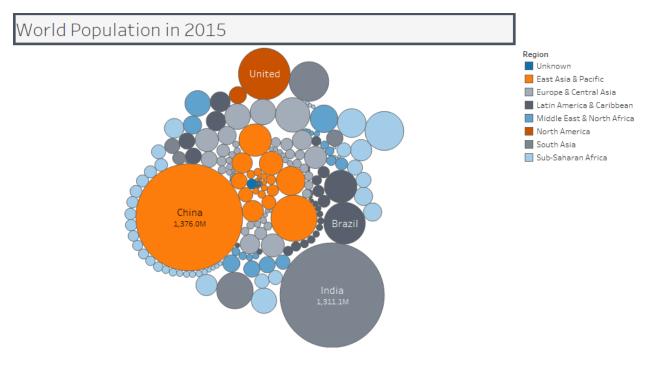
Creating an Area Chart



Creating an Pie Chart



Creating an Bubble Chart



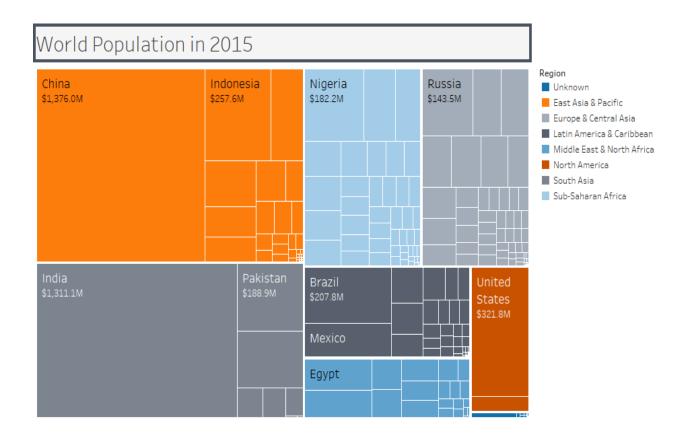
Creating an Word Cloud

Most Popular Baby Names in the US from 1910-2012

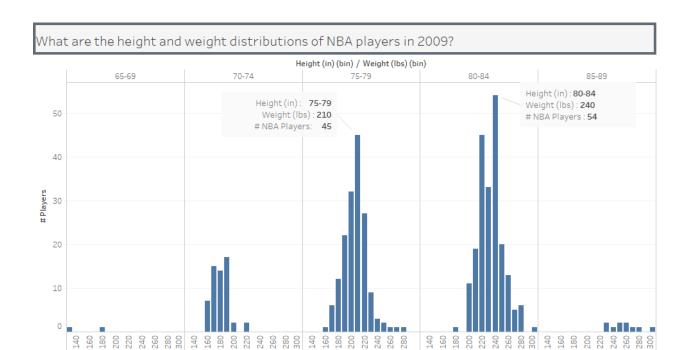


I have used different font from the what has been mentioned in text book.

Creating an Tree Map

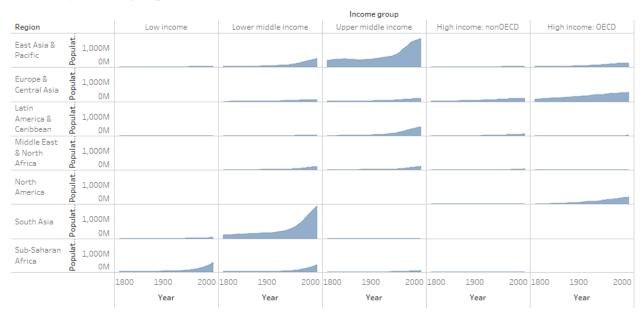


Creating a Histogram

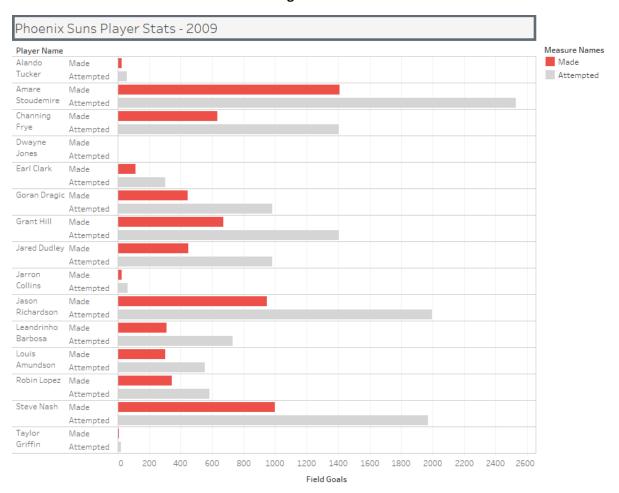


Creating Small Multiple Chart

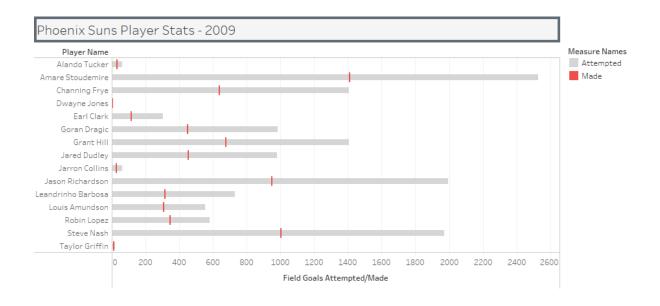
World Population by Region and Income Group



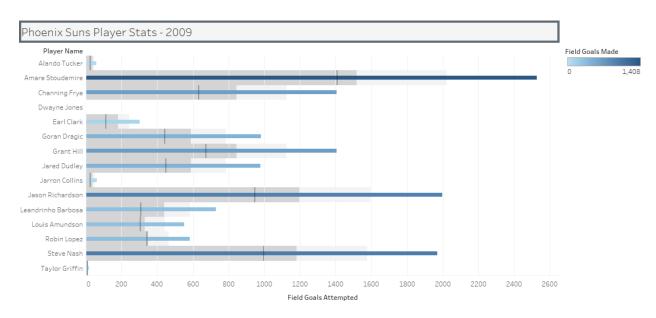
Creating Shared Axis Chart



Creating Combo Chart

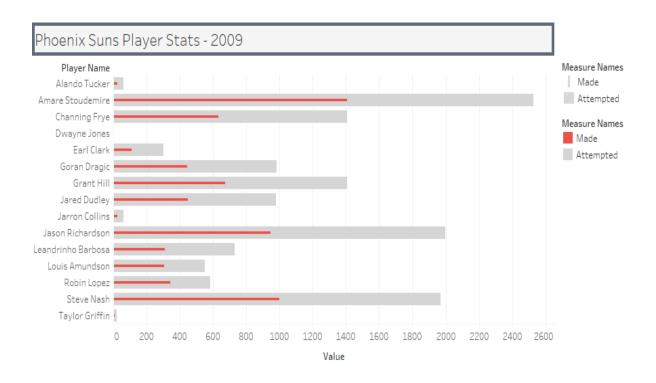


Creating Bullet Chart

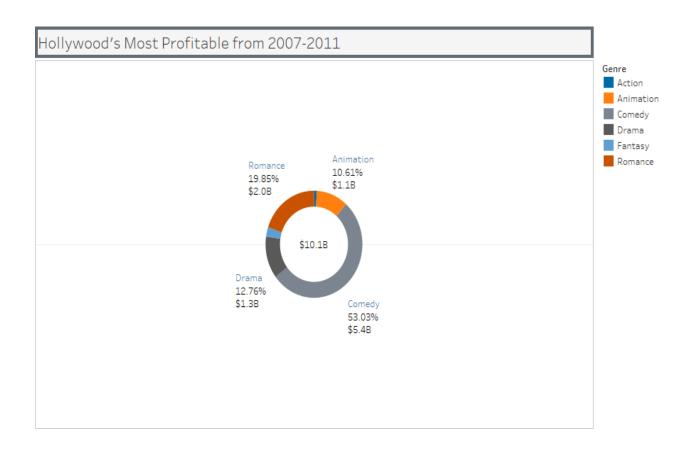


The light grey shade is not visible at the end while copying the data.

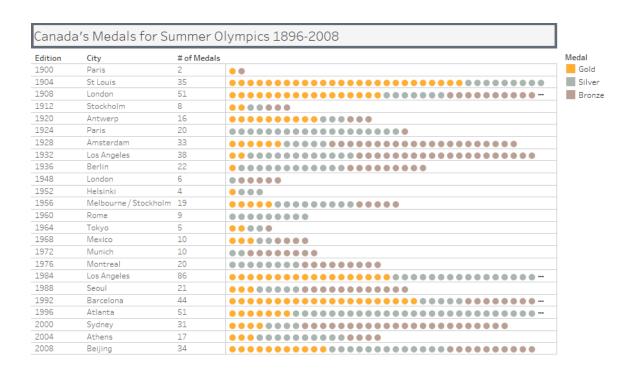
Creating Bar in Bar chart



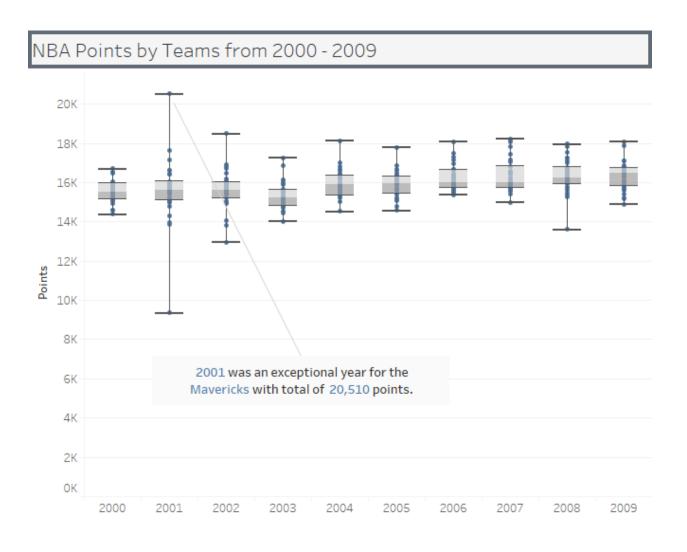
Creating Donut chart



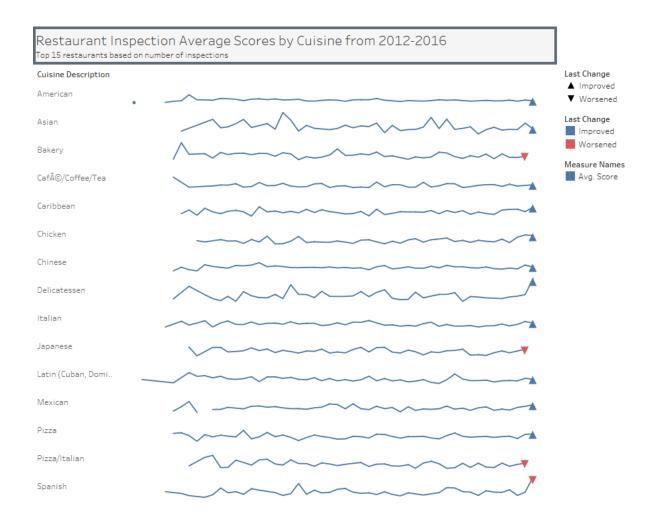
Creating Unit chart



Creating a Box and Whisker Chart



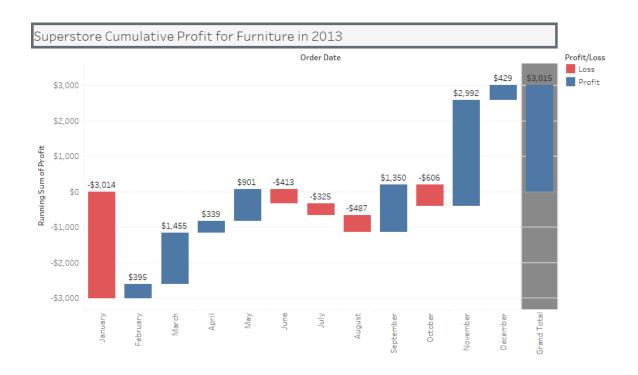
Creating a Sparkline with Indicators



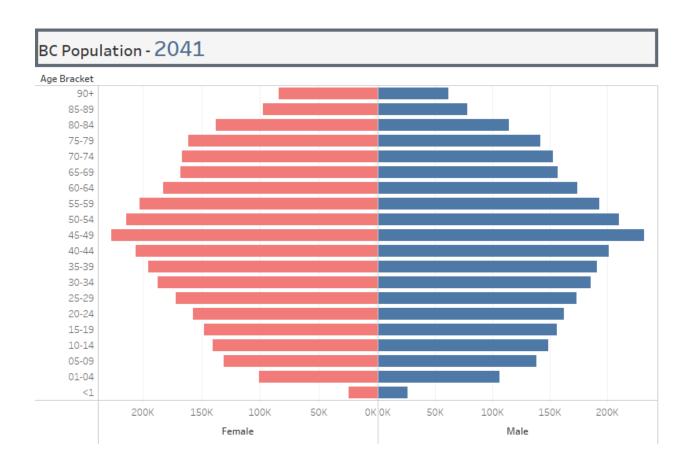
Chapter 2 – Advanced Charts Creating a KPI Text Table

This Table was omitted from assignment.

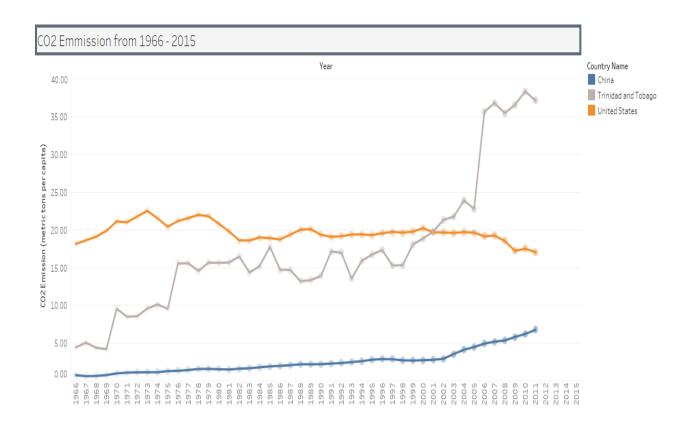
Creating a Waterfall Chart



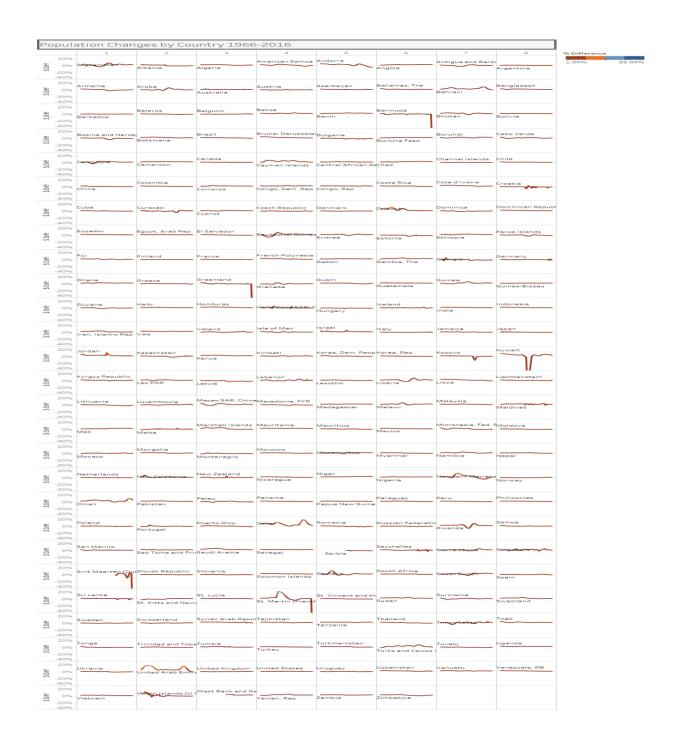
Creating Population Pyramid



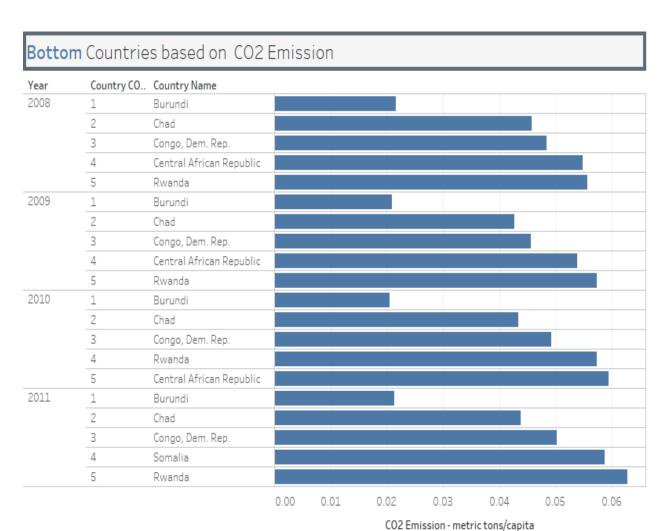
Creating a Motion Chart



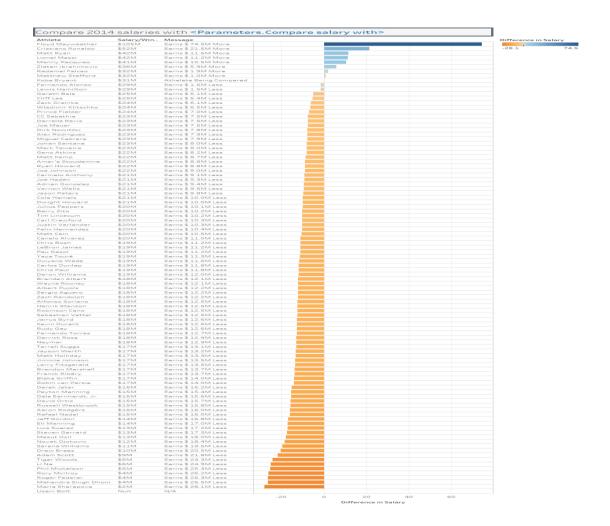
Creating a Dynamic Column/Row Trellis Chart



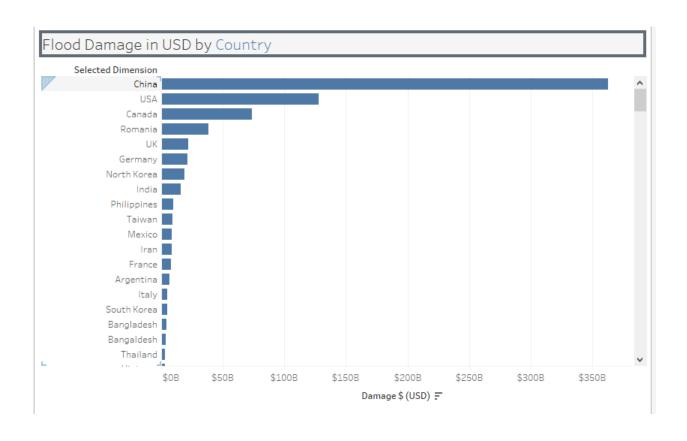
Creating a Top/Bottom N filter



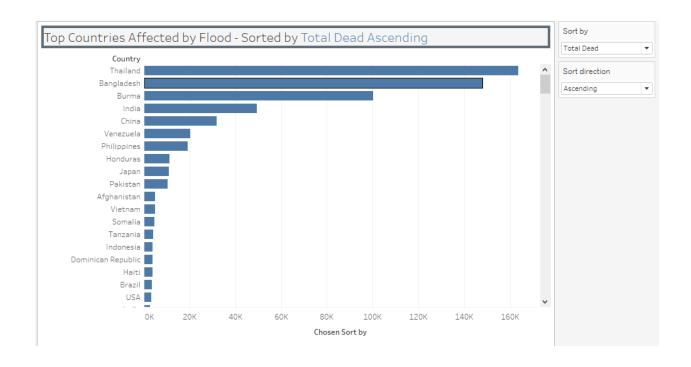
Comparing one to everything else



Dynamically displaying dimensions

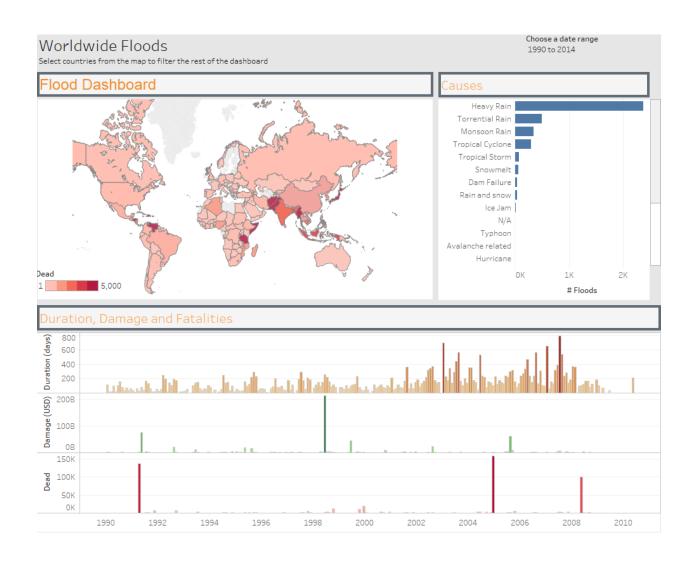


Dynamically displaying and sorting measures



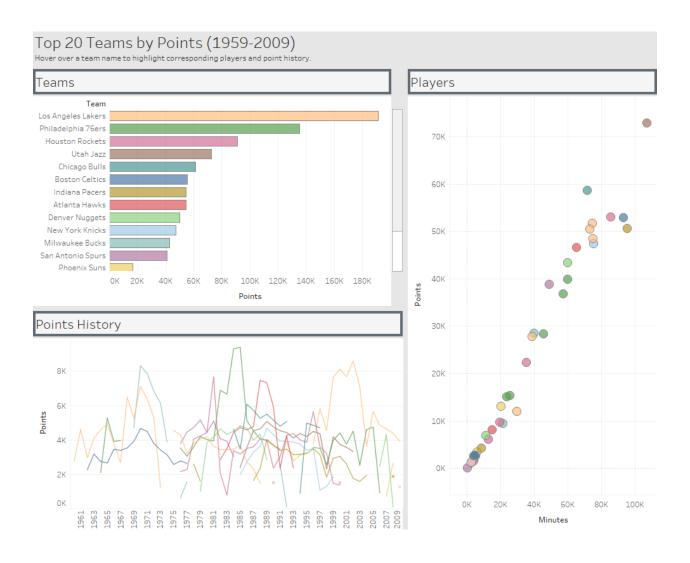
Chapter 4 – Dashboards and Story Points

Creating a Filter Action



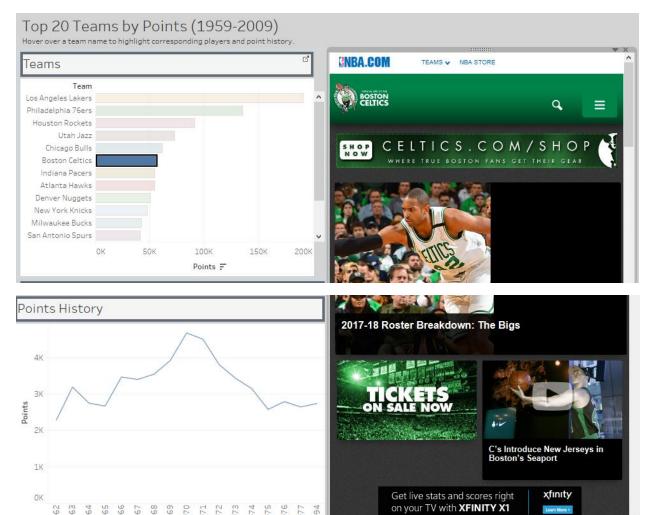
Chapter 4 – Dashboards and Story Points

Creating a Highlight Action



Chapter 4 - Dashboards and Story Points

Creating a URL Action



I have copied the image in 2 parts using snipping tool.

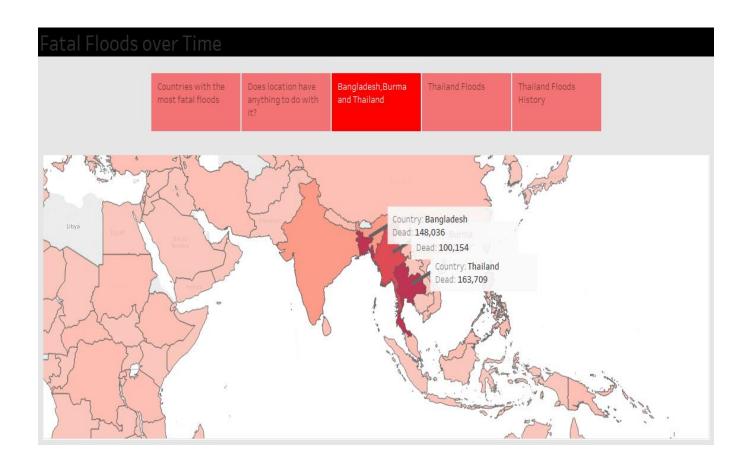
Chapter 4 - Dashboards and Story Points

Creating an Infographic-like dashboard

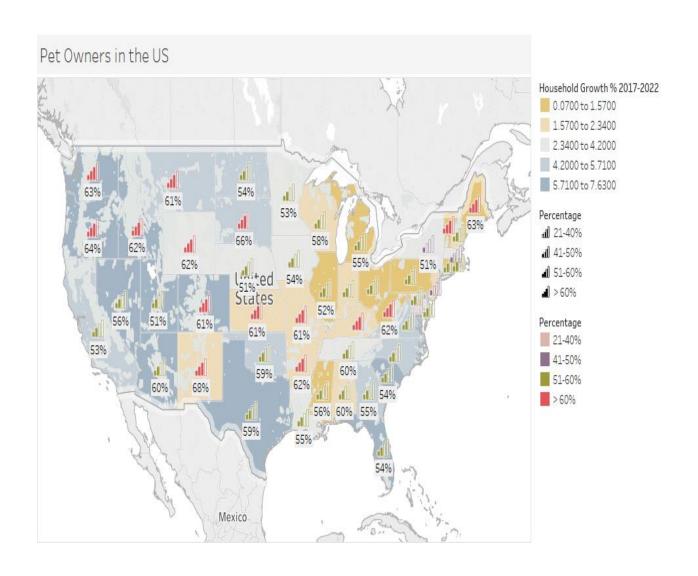


Chapter 4 – Dashboards and Story Points

Creating Story Points



Chapter 5 – Maps and Geospatial Visualization Adding data layers to map

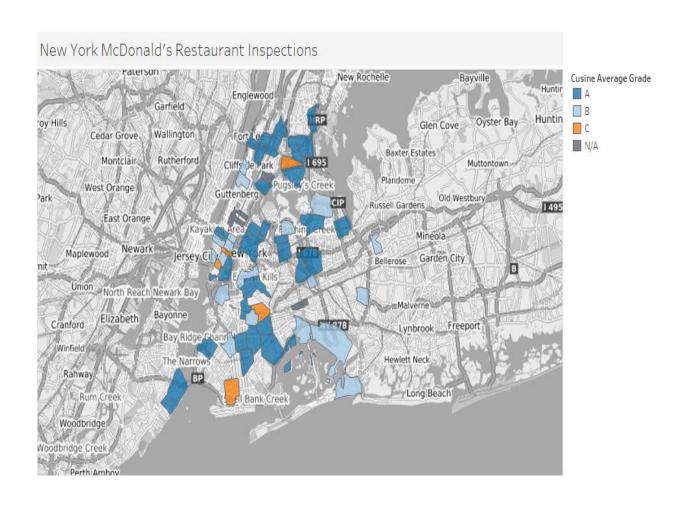


Chapter 5 – Maps and Geospatial Visualization Creating custom territories

World's Busiest Airports (2014 and 2015)



Chapter 5 – Maps and Geospatial Visualization Working with WMS



Chapter 5 – Maps and Geospatial Visualization

Using path to display movement in map



Chapter 5 – Maps and Geospatial Visualization Mapping Custom polygons

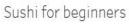
This graph was omitted.

Chapter 5 – Maps and Geospatial Visualization Importing custom geocoding



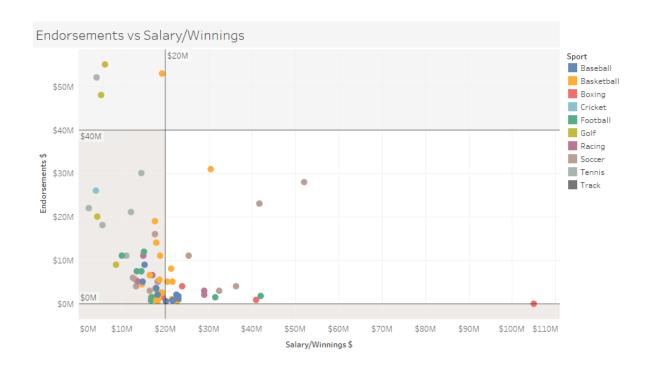
Chapter 5 – Maps and Geospatial Visualization

Using a custom image background

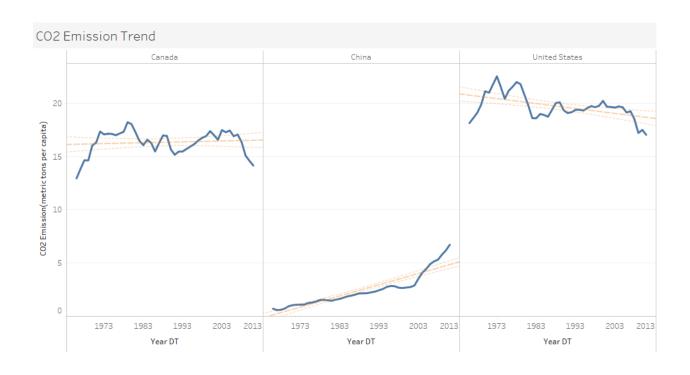




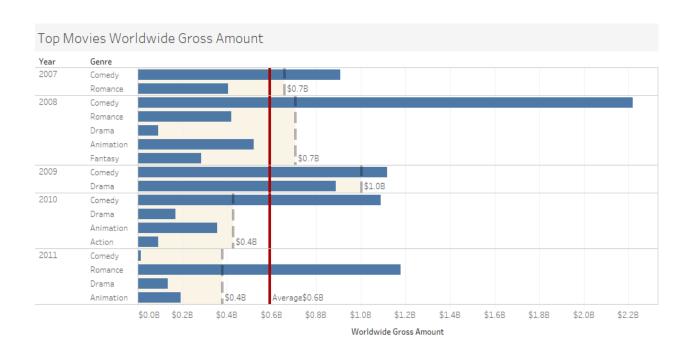
Adding a constant line



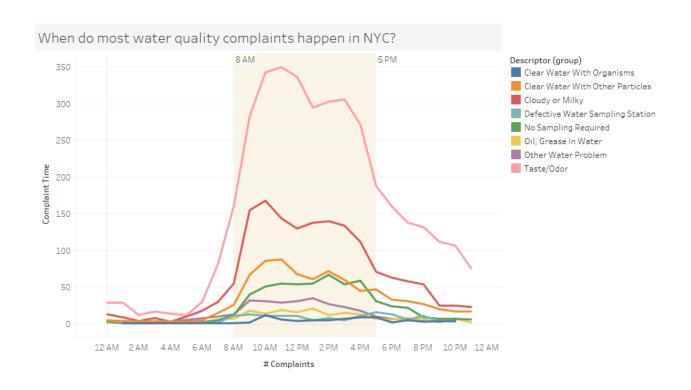
Adding a Trend Line



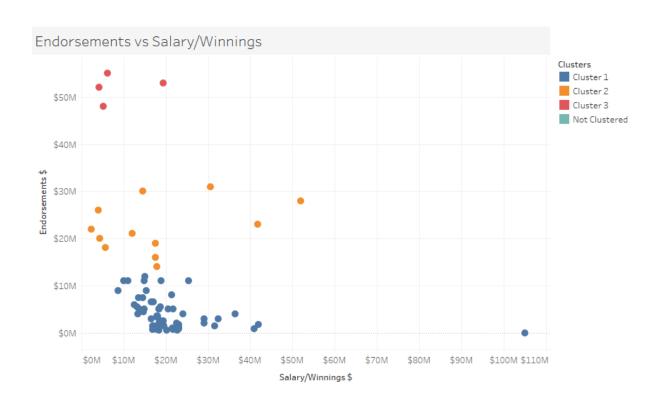
Using a Reference Line



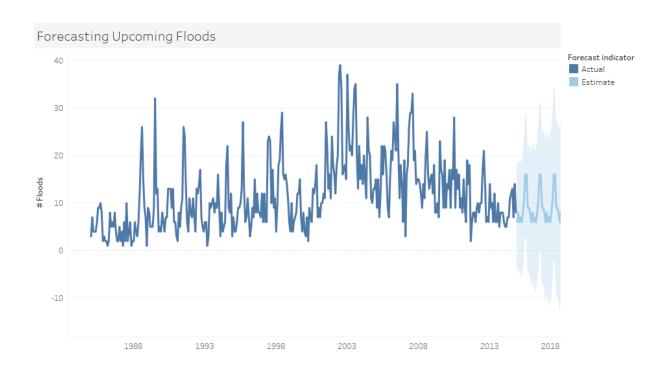
Adding a reference band



Performing Cluster Analysis



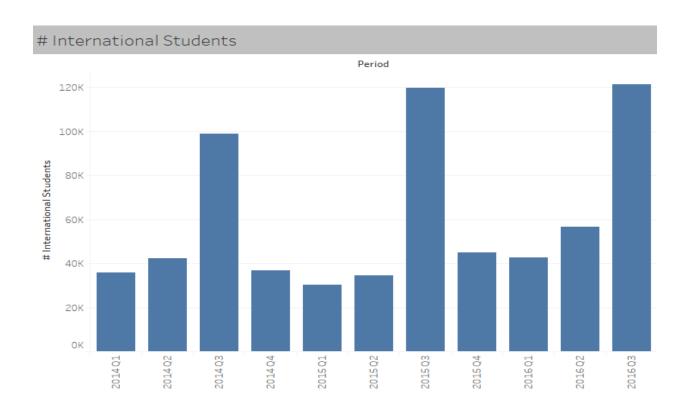
Visualizing Forecast



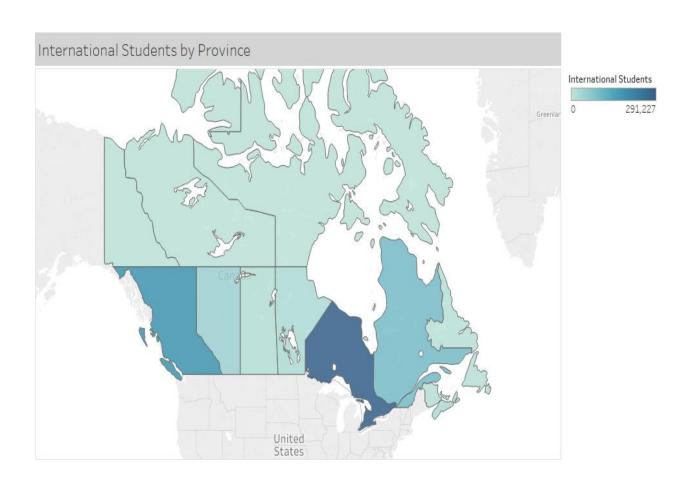
Performing linear regression with R

This graph was omitted.

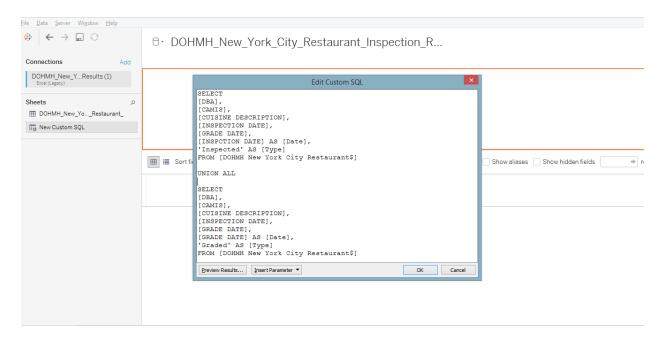
Using the Data Interpreter and Pivot



Using the Data Interpreter and Pivot

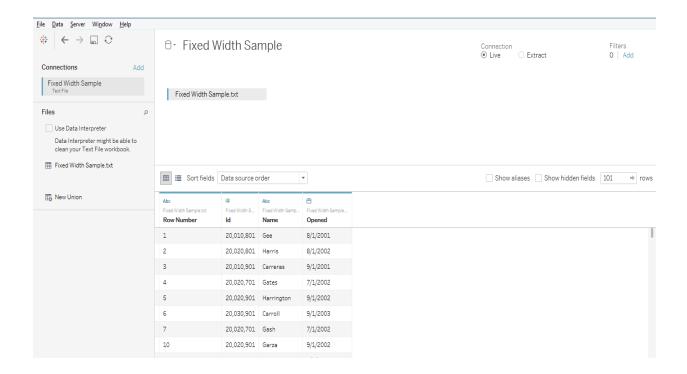


Using the Legacy Jet driver



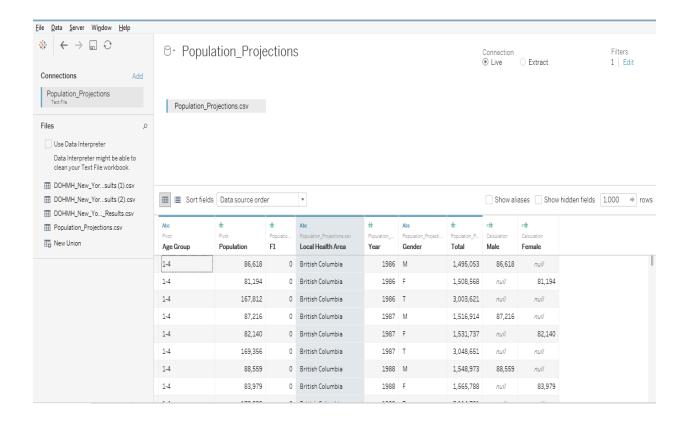
The query is not working.

Using schema.ini to resolve data type issues



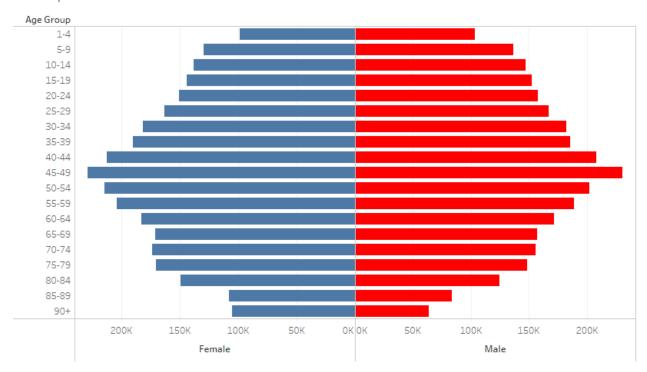
As there is some issue with .ini file the output of **Opened** column is not coming in proper format.

Pivoting columns

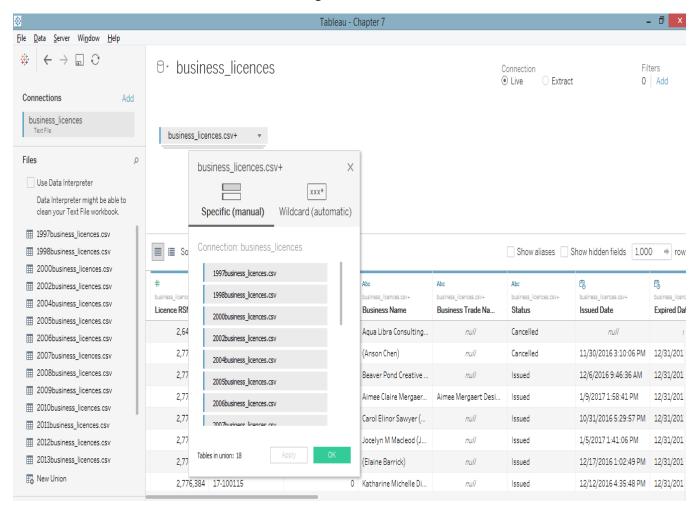


Pivoting columns

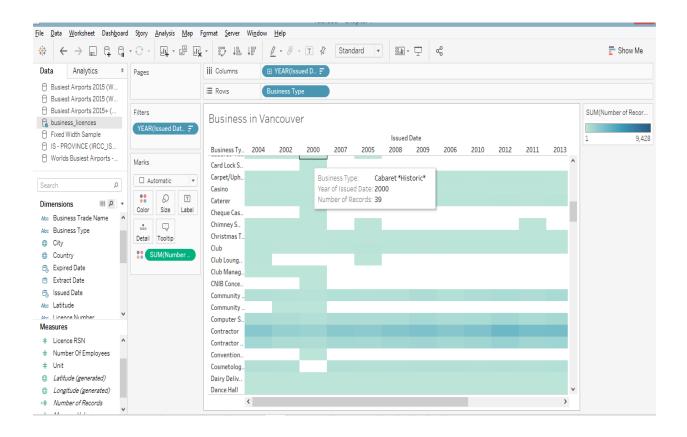
BC Population 2041



Using Union



Using Union



I have tried to generate graph using Heat Map but could not get the results like what has been mentioned in text book.

Using Join

Left Outer Join

Airport	Passengers	Airport Code	Airport Name
ATL	101,489,887	ATL	Hartsfield Jackson Atlant
CDG	65,771,288	Null	Null
DXB	78,010,265	DXB	Dubai International
HKG	68,342,785	HKG	Hong Kong International
HND	75,316,718	HND	Tokyo International
LAX	74,704,122	LAX	Los Angeles International
LHR	74,989,914	LHR	London Heathrow
ORD	76,942,493	ORD	Chicago O'Hare Internatio
PEK	89,938,628	PEK	Beijing Capital Internatio

The view is broken down by Airport, sum of Passengers, Airport Code and Airport Name.

Using Join

Left outer join 1

Airport1	Passengers	Airport Cod	Airport Name1
Null	Null	DFW	Dallas Fort Worth Interna
ATL	101,489,887	ATL	Hartsfield Jackson Atlant
DXB	78,010,265	DXB	Dubai International
HKG	68,342,785	HKG	Hong Kong International
HND	75,316,718	HND	Tokyo International
LAX	74,704,122	LAX	Los Angeles International
LHR	74,989,914	LHR	London Heathrow
ORD	76,942,493	ORD	Chicago O'Hare Internatio
PEK	89,938,628	PEK	Beijing Capital Internatio

Using Join

RIght outer join

Airport1	Passengers	Airport Cod	Airport Name1
ATL	101,489,887	ATL	Hartsfield Jackson Atlant
CDG	65,771,288	Null	Null
DXB	78,010,265	DXB	Dubai International
HKG	68,342,785	HKG	Hong Kong International
HND	75,316,718	HND	Tokyo International
LAX	74,704,122	LAX	Los Angeles International
LHR	74,989,914	LHR	London Heathrow
ORD	76,942,493	ORD	Chicago O'Hare Internatio
PEK	89,938,628	PEK	Beijing Capital Internatio

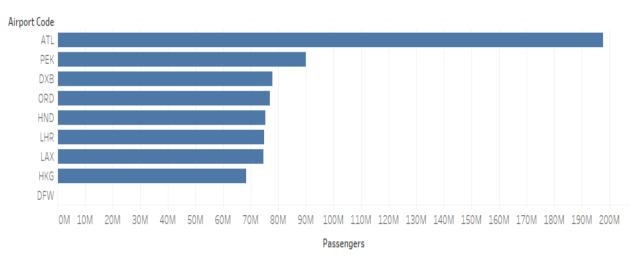
Chapter 7 – Data Preparation Using Join

Busiest Airports



Using Blend

Busiest airports



Using Blend

