DATA BOOTCAMP FINAL PROJECT PRESENTATION

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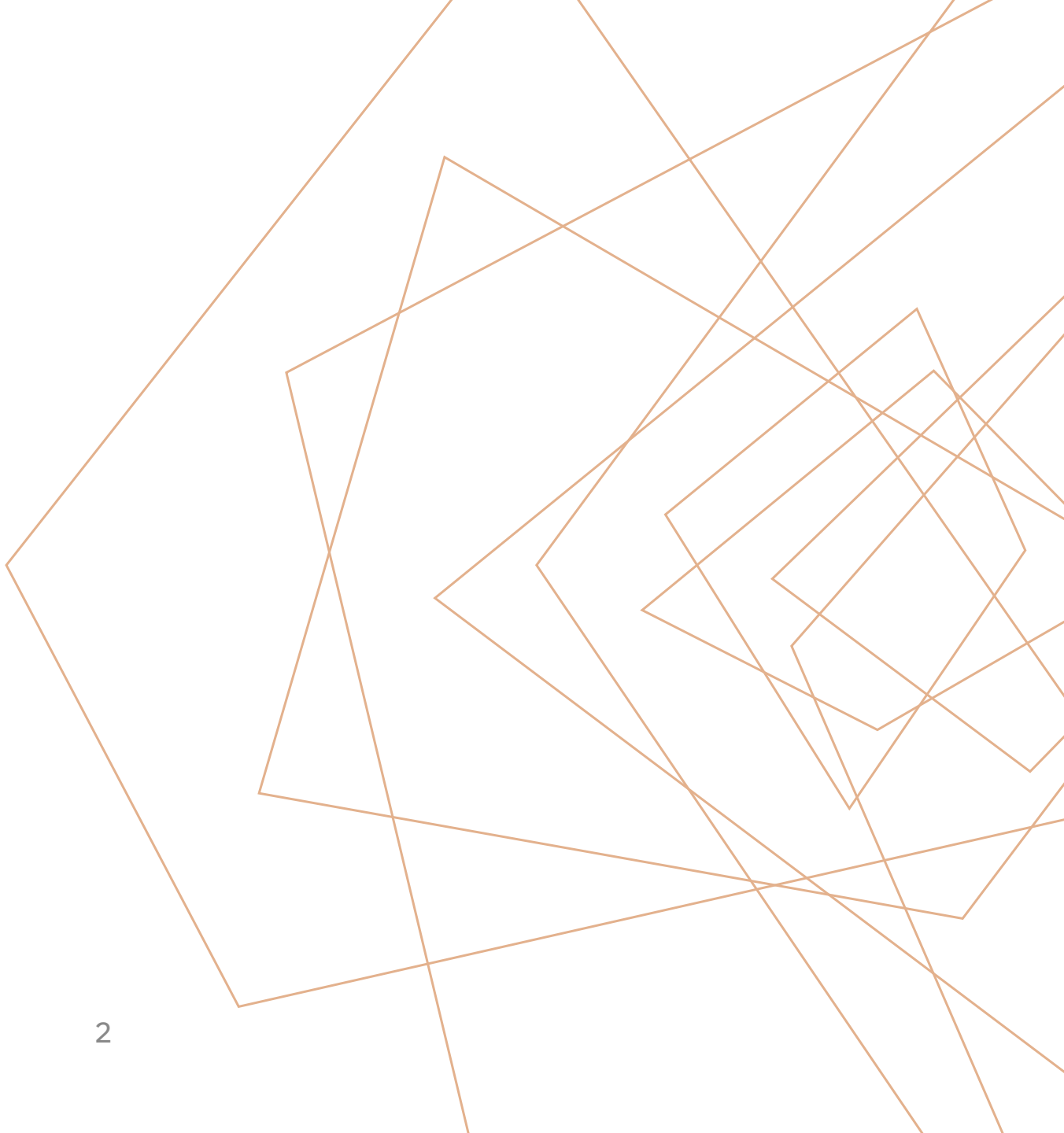
May 2022

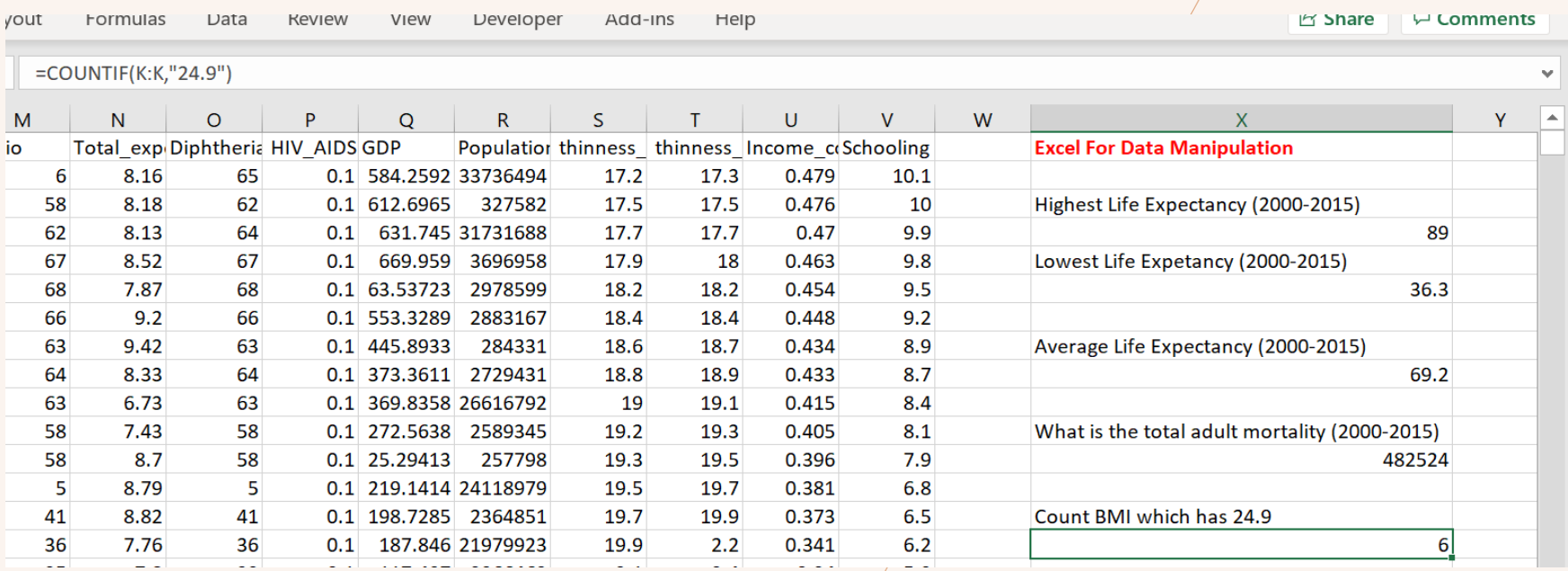
ABOUT THE PROJECT

The aim of the following project was to showcase the skills I have enquired during the following bootcamp.



TOOL AND SKILLS USED FOR THE FOLLOWING PROJECT

EXAMPLES OF EXCEL FUNCTIONS USED TO RETRIEVE AND MANIPULATE DATA



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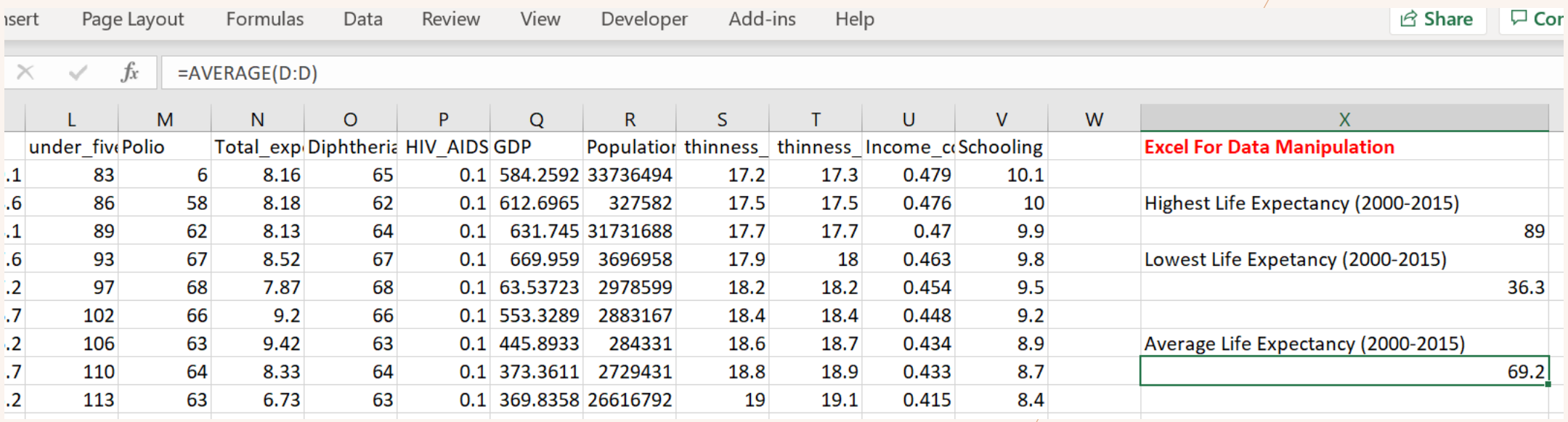
=COUNTIF(K:K,"24.9")

M	N	O	P	Q	R	S	T	U	V	W	X	Y
io	Total_exp	Diphtheria	HIV_AIDS	GDP	Populatior	thinness_	thinness_	Income_c	Schooling		Excel For Data Manipulation	
6	8.16	65	0.1	584.2592	33736494	17.2	17.3	0.479	10.1			
58	8.18	62	0.1	612.6965	327582	17.5	17.5	0.476	10		Highest Life Expectancy (2000-2015)	
62	8.13	64	0.1	631.745	31731688	17.7	17.7	0.47	9.9		89	
67	8.52	67	0.1	669.959	3696958	17.9	18	0.463	9.8		Lowest Life Expetancy (2000-2015)	
68	7.87	68	0.1	63.53723	2978599	18.2	18.2	0.454	9.5		36.3	
66	9.2	66	0.1	553.3289	2883167	18.4	18.4	0.448	9.2			
63	9.42	63	0.1	445.8933	284331	18.6	18.7	0.434	8.9		Average Life Expectancy (2000-2015)	
64	8.33	64	0.1	373.3611	2729431	18.8	18.9	0.433	8.7		69.2	
63	6.73	63	0.1	369.8358	26616792	19	19.1	0.415	8.4			
58	7.43	58	0.1	272.5638	2589345	19.2	19.3	0.405	8.1		What is the total adult mortality (2000-2015)	
58	8.7	58	0.1	25.29413	257798	19.3	19.5	0.396	7.9		482524	
5	8.79	5	0.1	219.1414	24118979	19.5	19.7	0.381	6.8			
41	8.82	41	0.1	198.7285	2364851	19.7	19.9	0.373	6.5		Count BMI which has 24.9	
36	7.76	36	0.1	187.846	21979923	19.9	2.2	0.341	6.2		6	



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=AVERAGE(D:D)

	L	M	N	O	P	Q	R	S	T	U	V	W	X
	under_fiv	Polio	Total_exp	Diphtheria	HIV_AIDS	GDP	Populatior	thinness_	thinness_	Income_c	Schooling		Excel For Data Manipulation
.1	83	6	8.16	65	0.1	584.2592	33736494	17.2	17.3	0.479	10.1		
.6	86	58	8.18	62	0.1	612.6965	327582	17.5	17.5	0.476	10		Highest Life Expectancy (2000-2015)
.1	89	62	8.13	64	0.1	631.745	31731688	17.7	17.7	0.47	9.9		89
.6	93	67	8.52	67	0.1	669.959	3696958	17.9	18	0.463	9.8		Lowest Life Expetancy (2000-2015)
.2	97	68	7.87	68	0.1	63.53723	2978599	18.2	18.2	0.454	9.5		36.3
.7	102	66	9.2	66	0.1	553.3289	2883167	18.4	18.4	0.448	9.2		
.2	106	63	9.42	63	0.1	445.8933	284331	18.6	18.7	0.434	8.9		Average Life Expectancy (2000-2015)
.7	110	64	8.33	64	0.1	373.3611	2729431	18.8	18.9	0.433	8.7		69.2
.2	113	63	6.73	63	0.1	369.8358	26616792	19	19.1	0.415	8.4		

EXAMPLES OF MYSQL BEING USED TO RETRIEVE DATA

```
11    -- I would like see if the United Kingdom of Great Britain (UK) and Northern Ireland (NI)
12    -- is one of the top 5 highest life expectancy countries around the world in 2015
13    SELECT year, country, status, life_expectancy
14    FROM tutorial.project
15    WHERE year = 2015
16    ORDER BY Life_expectancy DESC
17    LIMIT 5;
18    -- Slovenia came up as the highest life expectancy country in 2015
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

year	country	status	life_expectancy
2015	Slovenia	Developed	88
2015	Denmark	Developed	86
2015	Chile	Developing	85
2015	Cyprus	Developed	85
2015	Japan	Developed	83.7

Result Grid

Form Editor

EXAMPLES OF MYSQL BEING USED TO RETRIEVE DATA

```
44
45      -- 5a
46      -- Total number infant death in UK and NI (2015)
47      SELECT Year, Country, SUM(infant_deaths) AS 'Total No Infant Deaths'
48      FROM tutorial.project
49      WHERE country = 'United Kingdom of Great Britain and Northern Ireland' AND year = 2015;
50
51      -- 5b
52      -- Total number infant death in Slovenia (2015)
53      SELECT Year, Country, SUM(infant_deaths) AS 'Total No Infant Deaths'
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Year	Country	Total No Infant Deaths
2015	United Kingdom of Great Britain and Northern Ir...	3

EXAMPLES OF MYSQL BEING USED TO RETRIEVE DATA

```
57      -- 6a
58      -- I would like to explore the correlation between BMI and life expectancy, by creating a category based on weight status for Slovenia
59      SELECT year, country, life_expectancy, BMI,
60      CASE
61      WHEN BMI < 18.5 THEN 'Underweight'
62      WHEN BMI BETWEEN 18.6 AND 24.9 THEN 'Healthy'
63      WHEN BMI BETWEEN 25 AND 29.9 THEN 'Overweight'
64      ELSE 'Obese'
65      END AS 'Weight Status'
66      FROM tutorial.project
67      WHERE country = 'Slovenia' AND year BETWEEN 2000 AND 2015;
68
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

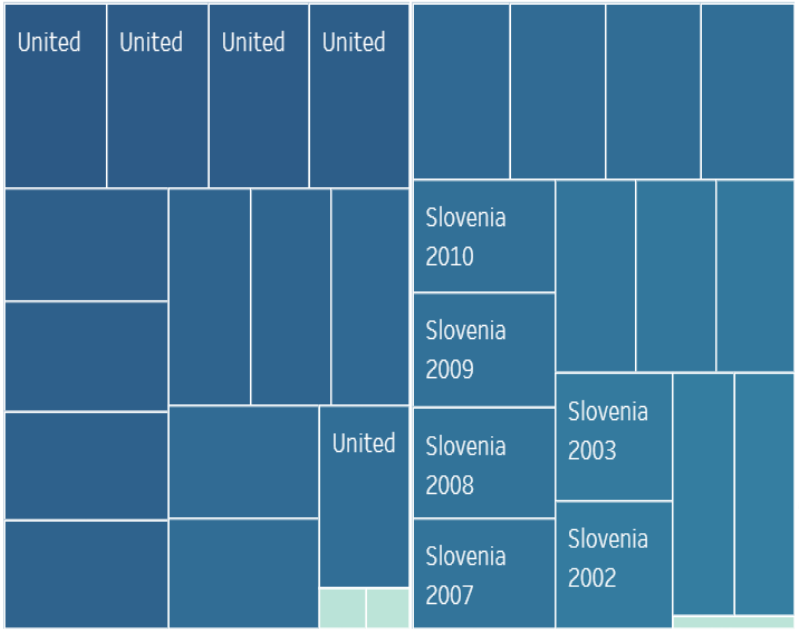
year	country	life_expectancy	BMI	Weight Status
2007	Slovenia	78.3	55.2	Obese
2006	Slovenia	78.1	54.7	Obese
2005	Slovenia	77.5	54.1	Obese
2004	Slovenia	77.2	53.5	Obese
2003	Slovenia	76.5	52.9	Obese
2002	Slovenia	76.6	52.3	Obese
2001	Slovenia	76.2	51.8	Obese
2000	Slovenia	76	51.2	Obese

DATA VISUALIZATION USING TABLEAU AND MYSQL FINDING

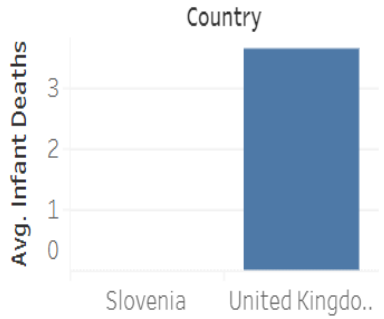
Life Expectancy WHO Dataset 2000-2015

The aim is to explore various cause-specific mortality amongst the british population while making a comparison with the highest life expectancy country in 2015.

BMI and Life Expectancy (2000-2015)



AVG. Infant Mortality Rate 2000-2015



Avg. Bmi

AVG. Adult Mortality, Alcohol and Life Expectancy (2000-2015)

Country

Life expectancy

Top 5 Highest Life Expectancy Countries 2015

Count..	
Slovenia	88.000
Denmark	86.000
Cyprus	85.000
Chile	85.000
Japan	83.700

Top 5 Lowest Life Expectancy Countries 2015

Country	
Sierra Leone	51.000
Angola	52.400
Central African Re..	52.500
Chad	53.100
Côte d'Ivoire	53.300

DATA VISUALIZATION USING TABLEAU AND MYSQL FINDING

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Central African Re..	52.500
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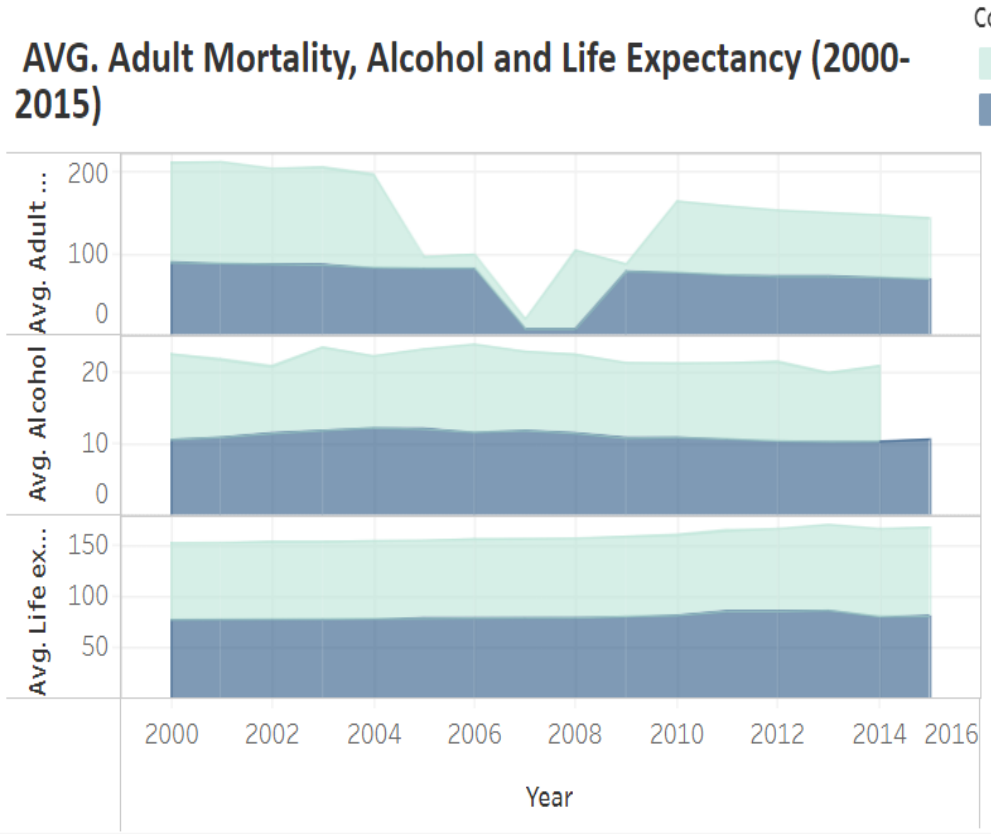

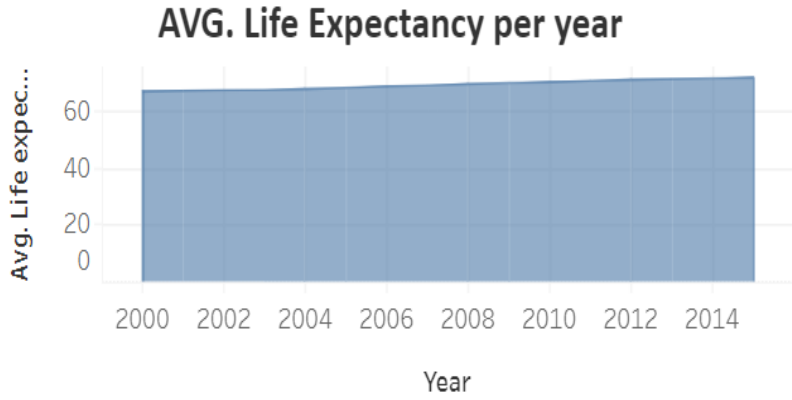

World Health Organization