

Data Bootcamp Final Project Presentation

Who Lives Longer Developed VS Developing Countries?
What are the Factors to Life Expectancy?



Who is Faisa?

- A Londoner
- An Optometrist
- A Travel enthusiast

Why Data & Project Management

- Interested in Health -Tech
- Introduced to Analysis mindset at school.



My Project - Objectives

Questions I aim to answer with this project.

- Who has a longer life expectancy? Developed or Developing?
- Impact of measles on Infant death rates?
- Who has a higher Adult mortality rate between developed and developing countries?
- Effects of HIV, BMI and Alcohol on life expectancy? What countries is HIV more prevalent in?

My Project - Excel Findings

SumIF Function	Sum of the infant deaths in Developing countries
=SUMIF(C:C,"Developing",F:F)	88268

MAX Function	Max Infant Death in one country
=MAX(F:F)	1800

XLOOKUP	Country with highest number of Infant Deaths
=XLOOKUP(X9,F:F,A:A,FALSE)	INDIA

My Project - SQL Analysis

Infant Deaths Levels: Developed VS Developing Countries

```
2 • SELECT *
3 FROM faisa.sql_project;
4
5 -- Checking that it is the correct number of rows
6 • SELECT count(*)
7 FROM faisa.sql_project;
8
9 -- Find top 5 countries with the highest infant deaths in Year 2015
10 • SELECT country, infant_deaths, status
11 FROM faisa.sql_project
12 WHERE year = 2015
13 ORDER BY infant_deaths DESC
14 LIMIT 10;
```

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

country	infant_deaths	status
India	910	Developing
Nigeria	483	Developing
Pakistan	352	Developing
Democratic Republic of the Congo	236	Developing
China	157	Developing
Ethiopia	136	Developing
Indonesia	114	Developing
Bangladesh	92	Developing
United Republic of Tanzania	85	Developing
Annola	66	Developinn

sql_project 162 x

```
10 • SELECT country, infant_deaths, status
11 FROM faisa.sql_project
12 WHERE year = 2015
13 ORDER BY infant_deaths DESC
14 LIMIT 5;
15
16 -- Find top 5 countries with lowest infant deaths in Year 2015
17 • SELECT country, infant_deaths, status
18 FROM sql_project
19 WHERE year = 2015
20 ORDER BY infant_deaths ASC
21 LIMIT 10;
22
```

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

country	infant_deaths	status
Barbados	0	Developing
Albania	0	Developing
Belarus	0	Developing
Bahrain	0	Developing
Antigua and Barbuda	0	Developing
Belgium	0	Developed
Bhutan	0	Developing
Austria	0	Developed
Belize	0	Developing
Rahamam	0	Developinn

sql_project 161 x

?

My Project - SQL Analysis

Effects of BMI, alcohol & HIV AIDS on Life Expectancy 2000 VS 2015

```
63 -- Finding the effect of BMI, alchol and HIV Aids on life expectancy in year 2000
64 -- Sierra Leone had the lowest life expectancy with high HIV rate.
65 -- Jappan highest life expectancy With low HIV rate but high alchol rate.
66 • SELECT country, life_expectancy, HIV_AIDS, alcohol,
67 CASE
68 WHEN bmi < 18.5 THEN 'Underweight'
69 WHEN bmi BETWEEN 18.5 AND 24.9 THEN 'Healthy'
70 WHEN bmi BETWEEN 25 AND 29.9 THEN 'Overweight'
71 WHEN bmi BETWEEN 30 AND 39.9 THEN 'Obese'
72 ELSE 'Morbidly Obese'
73 END AS 'BMI Range'
74 FROM faisa.sql_project
75 WHERE year = 2000
```

country	life_expectancy	HIV_AIDS	alcohol	BMI Range
Sierra Leone	39.0	1.2	3.97	Underweight
Malawi	43.1	25.5	1.18	Underweight
Zambia	43.8	18.7	2.62	Underweight
Angola	45.3	2.0	1.85	Underweight
Eritrea	45.3	1.9	0.83	Underweight
Central African Republic	46.0	14.3	1.51	Underweight
Zimbabwe	46.0	43.5	1.68	Overweight
Uganda	46.6	11.6	10.47	Underweight
Nigeria	47.1	4.9	9.23	Underweight

```
76 ORDER BY 2 ASC;
77
78 -- Finding the effect of BMI, alchol and HIV Aids on life expectancy in year 2015
79 -- Sierra Leone stil has the lowest expectancy but now Slovenia has the highest life expectancy.
80 • SELECT country, life_expectancy, HIV_AIDS, alcohol,
81 CASE
82 WHEN bmi < 18.5 THEN 'Underweight'
83 WHEN bmi BETWEEN 18.5 AND 24.9 THEN 'Healthy'
84 WHEN bmi BETWEEN 25 AND 29.9 THEN 'Overweight'
85 WHEN bmi BETWEEN 30 AND 39.9 THEN 'Obese'
86 ELSE 'Morbidly Obese'
87 END AS 'BMI Range'
88 FROM faisa.sql_project
```

country	life_expectancy	HIV_AIDS	alcohol	BMI Range
Sierra Leone	51.0	0.5	NA	Healthy
Angola	52.4	1.9	NA	Healthy
Central African Republic	52.5	4.4	NA	Healthy
Chad	53.1	2.8	NA	Healthy
Côte d'Ivoire	53.3	1.9	NA	Overweight
Lesotho	53.7	9.3	NA	Obese
Nigeria	54.5	3.7	NA	Overweight
Somalia	55.0	0.7	NA	Healthy
Cameroon	57.3	3.5	NA	Overweight
South Sudan	57.3	3.4	NA	Morbidly Obese



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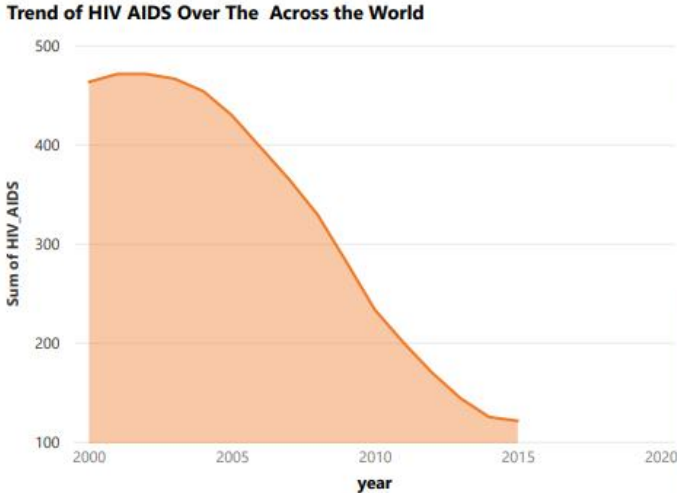
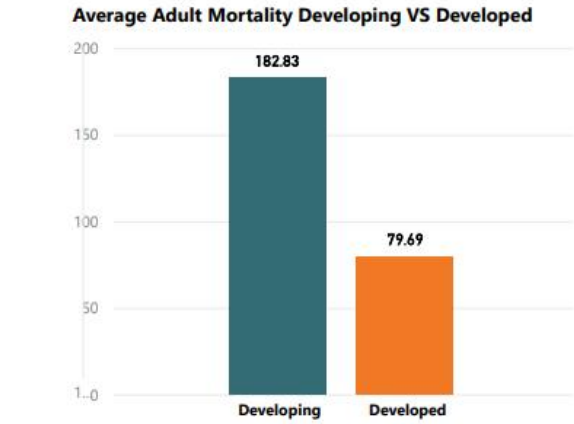
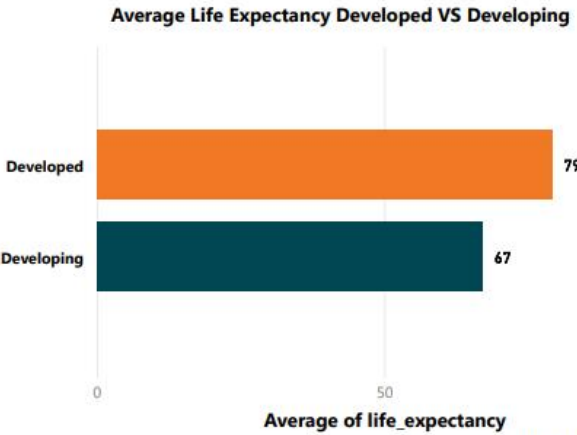
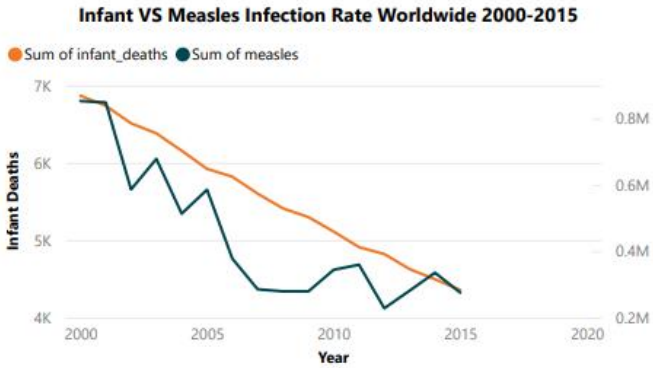


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- Dashboard

Life Expectancy Developed VS Developing 2000-2015



My Project - Recommendations/Insights

- The analysis shows the gap between developed and developing countries in regards to life expectancy is becoming smaller.
- Which is a good sign, although the developed countries still had higher life expectancy in average.
- Countries with high measles infection rates did have higher infant deaths. However there was a steady drop of infant death and measles infection rate across the years.
- Developing countries had higher average adult mortality rate.
- HIV and AIDS was more prevalent in African countries, although the general trend shows that the incident of it is falling across the years.

Challenges

- I found that the some of the data did not make sense! E.g. when it showed some countries not having any infant deaths in a whole year?!
- Realised that was probably because I did not clean the data (rookie mistake I know!)
- I would clean the data if I had more time.

Conclusion and Key Learnings

My Future Plans

- I want to work within Product management and help create products/services that help people in the health services and for that you need to make decisions based on data.
- **Top 3 key learnings**
 - I am still capable of learning new academic knowledge
 - Ability to connect and be outgoing within a large group of people.
 - Career-wise.
 - I learnt that I have transferrable skills and just picked up valuable practical skills for a successful career in Tech.
- **Key Skills I learnt on the Bootcamp**
 - project management principles
 - data SQL , Tableau , Power BI and Python.



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