

Gender Inequality index – Project 1

What Did I use to analyze this data? I used MySQL, particularly the MySQL workbench.

Where Did I access this dataset from? I accessed this dataset from a website called Kaggle.

What is the name of this dataset? The name of this dataset is Gender Inequality Index.

What is the whole point of this Dataset?: This dataset is a collection of data that shows the equality gap of genders, basically it wants to tell in which countries does inequality between women and men exist the most, which countries has less equality gap, medium equality gap and so on and so forth.

Who is being tested or rather who is this dataset collect from?: This dataset is collected from all 194 countries, and there is a specification/category of continents as well. Let's say for the South African country, there will be a column for the name of the country with a heading 'Country', under that column will obviously be a row, a row will have the name of the country and according to our example the row will have the country South Africa. There is another column right next to the 'Country' one, and it is called 'Continent'. So, the continent in the case of South Africa will be Africa, because South Africa is in the continent Africa. (I hope I am making sense).

For how many years has this data been collected for? What are the years we are analyzing?: In the case of this dataset, we are looking at the years from 1990 to 2021. So we are basically analyzing Gender Inequality stats from the year 1990 till the year 2021, basically 31 years.

What are the correlations implied?: There is a column that is titled "Human Development Group", this column is basically about whether the country is rich or not, it's about the financial standing of the country, the education level of that country, basically literacy of the country and death expectancy of that country. There is another column named '**GII Rank**' which means the Gender Inequality Index rank, this means that the countries also have a ranking of which ones have the highest gender inequality index to the least.

How did I analyze this data?

I analyzed the dataset in seven different queries, in order to carefully analyze and find correct data.

1. First what I did is I created the Gender Inequality Index, basically imported the data into my MySQL Workbench. I made sure I imported all the columns and their rows to ensure that I got all the data I may need in order to analyze properly without mistakes.
2. Secondly, I selected 10 countries that have the highest inequality. I used these columns to select them\
 - country,
 - continent,
 - human_dev_groups,
 - gii_2021

What were my findings?

I found that the following countries all had a huge gender inequality index gap

- Papua New Guinea
- Central African Republic
- Mauritania
- Tonga
- Guinea
- Ivory Coast
- Mali
- Niger
- Gambia
- Benin

I found that 9 of those countries were from Africa, one with is Tonga is from the continent Oceania.

I also found that 60% of them have a low Human Development group, 30% of them have a medium Human Development Group and only 10% of them (which is Oceania) has a high Human Development Group.

Which means that over half of these countries have low literacy rates, are very poor financially and have a young/small life expectancy.

What I found on my second query

What I was trying to gather here is which countries have the lowest Gender Inequality Index.

I found that the countries that have the smallest Gender Inequality index were the following:

- Denmark
- Norway
- Switzerland
- Sweden
- Netherlands
- Finland
- Singapore
- Iceland
- Luxembourg
- Belgium

Interestingly found that 90% of these countries are from the Continent Europe, and only one of them is from Asia, which is Singapore.

I also found that 100% of them have a Human Development Group of High. Meaning they have a long life Expectancy, are literate or rather have better education and are in good financial standing/condition.

What I found on my third query

What I was looking for in my query is to find which continent has an average Gender Inequality Index in 2021.

I found these continents have the most average Gender Inequality Index, ranking them from the most average to the least, by this is that the least average being the one that leans towards being Gender Equal as compared to the rest

- Africa
- Oceania

- America
- Asia
- Europe

For my 4th Query

I wanted to check the average Global Gender Inequality Index for the 1990, 2000, 2010 and 2021. So 10 years apart, and this is what I gathered

1. In 1990, the gender inequality averaged at 0.488
2. In 2000, the gender inequality averaged at 0.438
3. In 2010, the gender inequality averaged at 0.374
4. In 2021, the gender inequality averaged at 0.322

Which mean that the gender inequality decreased as the years go by. And it means that it decreased by these percentages:

1990: 0.488

2000: 0.438 (Which is a **10.25%** difference from the year 1990)

2010: 0.374 (Which is a **14.6%** difference from the year 2000)

2021: 0.322 (Which is a **13.9%** difference from the year 2010)

This means that there is a decrease in gender inequality of **34.0%** from the year 1990 to the year 2021.

On my 5th Query

I gathered which countries had the highest Gender Inequality improvement from the year 1990 to the year 2021, meaning which countries had the lowest to the highest gender equality, and limited my search to 10 countries, and this is what I found:

Countries that had the highest improvement are:

- United Arab Emirates
- Maldives
- Turkey
- Chile
- Morocco
- Tunisia
- North Macedonia
- Estonia
- Kuwait

- Pakistan

I found that the United Arab Emirates had the highest percentage improvement of 92.6%, and the Pakistan had the lowest percentage (amongst the 10 countries) of 34.2%.

All the countries (10 countries) had an average of 58.45%.

I found that 50% of the countries were from the continent Asia, 20% Africa, 20% Europe and 10% America.

On my 6th Query, this is what I found

I wanted to analyze African countries, and I limited my search by 15 countries, and I analyzed multiple things such as the Human Development Group, the Gender Inequality Index, and used both of them to determine if the Gender Inequality was high, medium or low. I analyzed them based on the 2021.

I found that

- 1/15 countries have a very high Human Development Group, and had a medium Inequality Level.
- I found that 4/15 countries have a high Human Development Group, and 3/4 of those 4/15 countries have a medium inequality level, with only 1/4 have a low inequality level, that country is Tunisia.
- I found that 7/15 of those countries have a Human Development group of Medium. 3/7 of those countries have a high Inequality level, and are all from the African Continent. And 4/7 of those countries have a medium inequality rate.
- Lastly, I found that 3/15 countries have a low Human Development Group, and 2/3 of them have a high Inequality level, and only 1/3 of them have a medium inequality level.

For my 7th Query

I gathered all countries, and the aim was to analyze the number of countries that have the lowest, medium and highest inequality rate. I was able to analyze 128 of the 194 countries because the 128 countries are the only countries that had/have complete data for all columns. And I found that:

- 57 Countries have a low Inequality Index
- 42 Countries have a medium Inequality Index
- And 29 Countries have a high inequality index