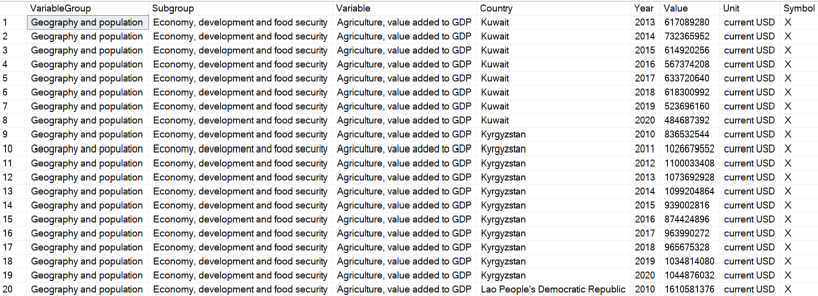
**Query List and Query Results**

Code by Owen Patrick

-- Full database

SELECT \* FROM aquastat



------ Dashboard 1: Social Metrics -----------------------------------------------------

-- Average gender inequality Index of all countries in 2020

SELECT CAST(AVG(a.Value) AS DECIMAL(10,2)) AS Avg\_Gender\_Inequality\_Index FROM aquastat a

WHERE a.Year = 2020 AND a.Variable = 'Gender Inequality Index (GII) [equality = 0; inequality = 1)'



-- Average Human Development Index of all countries in 2020

SELECT CAST(AVG(a.Value) AS DECIMAL(10,2)) AS Avg\_Human\_Dev\_Index FROM aquastat a

WHERE a.Year = 2020 AND Variable = 'Human Development Index (HDI) [highest = 1]'



-- Countries with top 5 gender inequality index in 2020

SELECT TOP 5 a.Value AS Top5\_Gender\_Index, a.Country FROM aquastat a

WHERE YEAR = 2020 AND Variable = 'Gender Inequality Index (GII) [equality = 0; inequality = 1)'

ORDER BY a.Value desc

A screenshot of a computer

Description automatically generated

-- Countries with bottom 5 gender inequality index

SELECT TOP 5 a.Value Bottom5\_Gender\_Index, a.Country FROM aquastat a

WHERE a.Year = 2020 AND a.Variable = 'Gender Inequality Index (GII) [equality = 0; inequality = 1)’

ORDER BY a.Value asc

A screenshot of a computer

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-- Countries with top 5 human development index

SELECT TOP 5 a.Value AS Top5\_Human\_Dev\_Index, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'Human Development Index (HDI) [highest = 1]'

ORDER BY a.Value desc

A screenshot of a computer

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-- Countries with bottom 5 human development index

SELECT TOP 5 a.Value AS Bottom5\_Human\_Dev\_Index, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'Human Development Index (HDI) [highest = 1]'

ORDER BY a.Value asc

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-- 2020 Bottom GII Countries: 10 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS GII, a.Year FROM aquastat a

WHERE a.Variable = 'Gender Inequality Index (GII) [equality = 0; inequality = 1)' AND

(a.Country = 'Yemen' OR a.Country = 'Niger' OR a.Country = 'Chad' OR a.Country = 'Afghanistan' OR a.Country = 'Côte d''Ivoire')

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-- 2020 Bottom HDI Countries: 10 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS HDI, a.Year FROM aquastat a

WHERE a.Variable = 'Human Development Index (HDI) [highest = 1]' AND

(a.Country = 'Central African Republic' OR a.Country = 'Niger' OR a.Country = 'Chad' OR a.Country = 'South Sudan' OR a.Country = 'Burundi')

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------ Dashboard 2: Economic Metrics ---------------------------------------------------------------------

-- Average GDP per capita in 2020

SELECT CAST(AVG(a.Value) AS DECIMAL(10,2)) AS Avg\_GDP\_Per\_Capita FROM aquastat a

WHERE a.Year = 2020 AND a.Variable = 'GDP per capita'



-- Average GDP Deflator in 2020

SELECT CAST(AVG(a.Value) AS DECIMAL(10,2)) AS Avg\_GDP\_Deflator FROM aquastat a

WHERE a.Year = 2020 AND a.Variable = 'GDP Deflator (2015)'



-- Countries with Top 5 GDP per capita in 2020

SELECT TOP 5 a.Value AS Top5\_GDP\_Per\_Capita, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'GDP per capita'

ORDER BY a.Value desc

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Description automatically generated

-- Countries with Bottom 5 GDP per capita in 2020

SELECT TOP 5 a.Value AS Bottom5\_GDP\_Per\_Capita, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'GDP per capita'

ORDER BY a.Value asc

A screenshot of a computer

Description automatically generated

-- Countries with Top 5 GDP Deflator in 2020

SELECT TOP 5 a.Value AS Top5\_GDP\_Deflator, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'GDP Deflator (2015)'

ORDER BY a.Value desc

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-- Countries with Bottom 5 GDP Deflator in 2020

SELECT TOP 5 a.Value AS Bottom5\_GDP\_Deflator, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'GDP Deflator (2015)'

ORDER BY a.Value asc

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-- 2020 Worst GDP Per Capita Countries: 10 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS GDP\_Per\_Capita, a.Year FROM aquastat a

WHERE a.Variable = 'GDP per capita' AND

(a.Country = 'Somalia' OR a.Country = 'Mozambique' OR a.Country = 'Madagascar' OR a.Country = 'Sierra Leone' OR a.Country = 'Burundi')

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-- 2020 Highest Inflation Countries: 4 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS GDP\_Deflator, a.Year FROM aquastat a

WHERE a.Variable = 'GDP Deflator (2015)' AND

(a.Country = 'South Sudan' OR a.Country = 'Iran (Islamic Republic of)' OR a.Country = 'Lebanon' OR a.Country = 'Ukraine' OR a.Country = 'Libya') AND

(a.Year = 2016 OR a.Year = 2017 OR a.Year = 2018 OR a.Year = 2019 OR a.Year = 2020)

A table with numbers and a number of countries/regions

Description automatically generated

------ Dashboard 3: Food & Agricultural Metrics ---------------------------------------------------------------------

-- Average number of people (Unit 1000 people) per country undernourished in 2020

SELECT CAST(AVG(a.Value) AS DECIMAL(30,2)) AS Avg\_Number\_Ppl\_Undernourished FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'Number of people undernourished (3-year average)'



-- Average % of total country area cultivated

SELECT CAST(AVG(a.Value) AS DECIMAL(30,2)) AS Avg\_PCT\_Area\_Cultivated FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = '% of total country area cultivated'



-- Top 5 countries of number of people undernourished in 2020

SELECT TOP 5 a.Value AS Top5\_Num\_Undernourished, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'Number of people undernourished (3-year average)'

ORDER BY a.Value DESC

A screenshot of a computer

Description automatically generated

-- Bottom 5 countries of number of people undernourished in 2020

SELECT TOP 5 a.Value AS Bottom5\_Num\_Undernourished, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = 'Number of people undernourished (3-year average)' AND a.Value IS NOT NULL

ORDER BY a.Value ASC

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-- Top 5 countries of % area cultivated in 2020

SELECT TOP 5 a.Value AS Top5\_Perc\_Area\_Cultivated, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = '% of total country area cultivated'

ORDER BY a.Value DESC

A screenshot of a computer

Description automatically generated

-- Bottom 5 countries of % area cultivated in 2020

SELECT TOP 5 a.Value AS Bottom5\_Perc\_Area\_Cultivated, a.Country FROM aquastat a

WHERE a.YEAR = 2020 AND a.Variable = '% of total country area cultivated'

ORDER BY a.Value ASC

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Description automatically generated

-- 2020 Highest Number Undernourished: 10 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS Ppl\_Undernourished, a.Year FROM aquastat a

WHERE a.Variable = 'Number of people undernourished (3-year average)' AND

(a.Country = 'India' OR a.Country = 'China' OR a.Country = 'Democratic Republic of the Congo' OR a.Country = 'Pakistan' OR a.Country = 'Ethiopia')

A screenshot of a table

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-- 2020 Highest Pct Area Cultivated: 10 Year Trend

SELECT a.Country, CAST(a.Value AS decimal(10,2)) AS Pct\_Cultivated, a.Year FROM aquastat a

WHERE a.Variable = '% of total country area cultivated' AND

(a.Country = 'Bangladesh' OR a.Country = 'Comoros' OR a.Country = 'Tokelau' OR a.Country = 'Tuvalu' OR a.Country = 'Republic of Moldova')

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