Query List and Query Results

Code by Owen Patrick

-- Full database

SELECT * FROM aquastat

```
Agriculture, value added to GDP
    Geography and population | Economy, development and food security
                                                                            Kuwait
                                                                                                     2013 617089280
                                                                                                                   current USD X
                                                     Agriculture, value added to GDP
                                                                                                     2014 732365952
                                                                                                                   current USD
     Geography and population  
Economy, development and food security
    Geography and population Economy, development and food security
                                                     Agriculture, value added to GDP
                                                                                                     2015 614920256
                                                                                                                   current USD
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
                                                                            Kuwait
                                                                                                     2016 567374208
                                                                                                                   current USD
    Geography and population | Economy, development and food security | Agriculture, value added to GDP
                                                                            Kuwait
                                                                                                     2018 618300992
                                                                                                                   current USD
                                                                                                     2019 523696160
    Geography and population  

Economy, development and food security  

Agriculture, value added to GDP
                                                                                                                   current USD
                                                                            Kuwait
    Geography and population | Economy, development and food security | Agriculture, value added to GDP
                                                                                                     2020 484687392
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
                                                                            Kyrgyzstan
                                                                                                     2010 836532544
                                                                                                                   current USD
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
                                                                                                     2011 1026679552 current USD X
                                                                            Kyrgyzstan
    Geography and population | Economy, development and food security | Agriculture, value added to GDP
                                                                            Kyrgyzstan
                                                                                                     2012 1100033408 current USD
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
                                                                            Kyrgyzstan
                                                                                                     2013 1073692928 current USD X
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
                                                                            Kyrgyzstan
                                                                                                     2014 1099204864 current USD
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP  
Kyrgyzstan
                                                                                                     2015 939002816 current USD X
                                                                                                     2016 874424896
    Geography and population  

Economy, development and food security  

Agriculture, value added to GDP
                                                                                                                   current USD X
                                                                            Kyrgyzstan
                                                                            Kyrgyzstan
                                                                                                     2017 963990272
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP  
Kyrgyzstan
                                                                                                     2018 965675328
                                                                                                                   current USD X
    Geography and population | Economy, development and food security | Agriculture, value added to GDP
                                                                                                     2019 1034814080 current USD
                                                                            Kyrgyzstan
    Geography and population  
Economy, development and food security  
Agriculture, value added to GDP  
Kyrgyzstan
                                                                                                     2020 1044876032 current USD
    Geography and population  Economy, development and food security  Agriculture, value added to GDP  Lao People's Democratic Republic  2010  1610581376  current USD  X
----- 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)'
        Avg_Gender_Inequality_Index
        0.37
-- 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]'
         Avg_Human_Dev_Index
        0.71
-- 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)
```

	Top5_Gender_Index	Country
1	0.740000009536743	Yemen
2	0.709999978542328	Chad
3	0.709999978542328	Niger
4	0.689999997615814	Afghanistan
5	0.680000007152557	Côte d'Ivoire

ORDER BY a. Value desc

-- 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
```

	Bottom5_Gender_Index	Country
1	0.0199999995529652	Slovenia
2	0.0299999993294477	Switzerland
3	0.0399999991059303	Germany
4	0.0500000007450581	Austria
5	0.0500000007450581	Denmark

-- 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
```

	Top5_Human_Dev_Index	Country
1	0.949999988079071	Norway
2	0.949999988079071	Switzerland
3	0.939999997615814	Australia
4	0.939999997615814	Germany
5	0.939999997615814	Iceland

-- 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



```
-- 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')
```

```
GII Year 23 Côte d'Ivo... 0.65 2013
      Country
      Afghanistan 0.72 2010 24
                                    Côte d'Ivo... 0.68 2014
                               25
                                   Côte d'Ivo... 0.68 2015
      Afghanistan 0.71 2011 26 Côte d'Ivo... 0.68 2016
2
      Afghanistan 0.71 2012 27
3
                                    Côte d'Ivo... 0.68 2017
      Afghanistan 0.70 2013 <sup>28</sup>
                                   Côte d'Ivo... 0.68 2018
4
                                   Côte d'Ivo... 0.68 2019
      Afghanistan 0.69 2014 30
5
                                    Côte d'Ivo... 0.68 2020
6
      Afghanistan 0.69 2015 31
                                              0.69 2010
                                    Niger
                                    Niger
                                              0.69 2011
7
      Afghanistan 0.69 2016 32
      Afghanistan 0.69 2017 33 34
                                    Niger
                                              0.68 2012
8
                                              0.67 2013
                                    Niger
9
      Afghanistan 0.69 2018 35
                                    Niger
                                              0.71 2014
      Afghanistan 0.69 2019 36
                                              0.71 2015
10
                                    Niger
                                              0.71 2016
      Afghanistan 0.69 2020 37
                                    Niger
11
                                    Niger
                                              0.71 2017
      Chad
                  0.71 2013 39
12
                                              0.71 2018
                                    Niger
                  0.71 2014 40
                                              0.71 2019
13
      Chad
                                    Niger
                  0.71 2015 41
                                    Niger
                                              0.71 2020
14
      Chad
                               42
                                              0.74 2010
                                    Yemen
                  0.71 2016 43
15
      Chad
                                    Yemen
                                              0.74 2011
16
      Chad
                  0.71 2017 44
                                    Yemen
                                              0.74 2012
                                              0.73 2013
                                    Yemen
                  0.71 2018 45
17
      Chad
                  0.71 2019 46 47
                                   Yemen
                                              0.74 2014
18
      Chad
                                    Yemen
                                              0.74 2015
19
      Chad
                  0.71 2020 48
                                              0.74 2016
                                    Yemen
      Côte d'Ivo... 0.65 2010 49
20
                                    Yemen
                                              0.74 2017
      Côte d'Ivo... 0.65 2011 50 51
                                    Yemen
                                              0.74 2018
21
                                              0.74 2019
                                    Yemen
      Côte d'Ivo... 0.65 2012 52
                                    Yemen
                                              0.74 2020
```

-- 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')

	-			23	Chad	0.37	2010
	Country	HDI	Year	24	Chad	0.39	2011
1	Burundi	0.40	2010	25	Chad	0.39	2012
2	Burundi	0.41	2011	26 27	Chad Chad	0.40	2013
3	Burundi		2012	28	Chad	0.41	2015
		0.42		29	Chad	0.40	2016
4	Burundi	0.42	2013	30	Chad	0.40	2017
5	Burundi	0.43	2014	31	Chad	0.40	2018
6	Burundi	0.43	2015	32	Chad	0.40	2019
7	Burundi	0.43	2016	33	Chad	0.40	2020
				34	Niger	0.32	2010
8	Burundi	0.42	2017	35	Niger	0.33	2011
9	Burundi	0.42	2018	36	Niger	0.34	2012
10	Burundi	0.42	2019	37	Niger	0.34	2013
11	Burundi	0.42	2020	38	Niger Niger	0.35	2014
		0.35	2010	40	Niger	0.36	2016
12	Central African Republic			41	Niger	0.37	2017
13	Central African Republic	0.36	2011	42	Niger	0.38	2018
14	Central African Republic	0.37	2012	43	Niger	0.38	2019
15	Central African Republic	0.35	2013	44	Niger	0.38	2020
16	Central African Republic	0.35	2014	45	South Sudan	0.44	2012
				46	South Sudan	0.44	2013
17	Central African Republic	0.36	2015	47	South Sudan	0.43	2014
18	Central African Republic	0.37	2016	48	South Sudan	0.43	2015
19	Central African Republic	0.38	2017	49 50	South Sudan South Sudan	0.42	2016
20	Central African Republic	0.38	2018	51	South Sudan	0.41	2017
			2019	52	South Sudan	0.41	2019
21	Central African Republic	0.38		53	South Sudan	0.41	2020
22	Central African Republic	0.38	2020	-			_,

```
----- 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'

```
Avg_GDP_Per_Capita
1 15004.28
```

-- 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

	Top5_GDP_Per_Capita	Country
1	180227.125	Liechtenstein
2	173695.765625	Monaco
3	117181.6484375	Luxembourg
4	86918.6484375	Switzerland
5	86250.9921875	Ireland

-- 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



-- 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



-- 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
```

```
| Bottom5_GDP_Deflator | Country | 1 | 56.0999984741211 | Uzbekistan | 2 | 58.9900016784668 | Angola | 3 | 66.5299987792969 | Sudan | 4 | 68.639993896484 | Argentina | 5 | 68.8000030517578 | Tajikistan |
```

-- 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')
```

	Country	GDP_Per_Capita	Year	25	Mozambiq	657.65	2012
1	Burundi	234.24	2010	26	Mozambiq	664.08	2013
2	Burundi	249.58	2011	27	Mozambiq	673.97	2014
_				28	Mozambiq	589.86	2015
3	Burundi	251.72	2012	29	Mozambiq	428.93	2016
4	Burundi	256.98	2013	30	Mozambiq	461.41 503.30	2017
5	Burundi	274.86	2014	32	Mozambiq Mozambiq	506.82	2019
6	Burundi	276.63	2015	33	Mozambiq	448.84	2019
7	Burundi	279.38	2016	34	Sierra Leo	401.83	2010
8	Burundi	304.59	2017	35	Sierra Leo	448.34	2011
9	Burundi	296.84	2018	36	Sierra Leo	566.38	2012
-				37	Sierra Leo	716.84	2013
10	Burundi	292.14	2019	38	Sierra Leo	714.70	2014
11	Burundi	285.88	2020	39	Sierra Leo	592.33	2015
12	Madagascar	471.96	2010	40	Sierra Leo	527.06	2016
13	Madagascar	531.27	2011	41	Sierra Leo	499.38	2017
14	Madagascar	518.15	2012	42	Sierra Leo	533.99	2018
15	Madagascar	541.07	2013	43	Sierra Leo	527.53	2019
16		530.86	2014	44	Sierra Leo	474.69	2020
	Madagascar			45	Somalia	90.73	2010
17	Madagascar	467.24	2015	46	Somalia Somalia	91.80 119.50	2011
18	Madagascar	475.96	2016	48	Somalia	134.92	2012
19	Madagascar	515.29	2017	49	Somalia	123.00	2014
20	Madagascar	523.95	2018	50	Somalia	105.44	2015
21	Madagascar	522.99	2019	51	Somalia	106.34	2016
22	Madagascar	469.77	2020	52	Somalia	111.05	2017
23	Mozambig	471.90	2010	53	Somalia	111.41	2018
				54	Somalia	118.61	2019
24	Mozambiq	594.59	2011	55	Somalia	117.86	2020

-- 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)
```

	Country	GDP_Deflator	Year
1	Iran (Islamic Republic of)	102.66	2016
2	Iran (Islamic Republic of)	107.97	2017
3	Iran (Islamic Republic of)	115.43	2018
4	Iran (Islamic Republic of)	153.76	2019
5	Iran (Islamic Republic of)	213.74	2020
6	Lebanon	101.04	2016
7	Lebanon	104.04	2017
8	Lebanon	109.71	2018
9	Lebanon	114.49	2019
10	Lebanon	181.13	2020
11	Libya	104.20	2016
12	Libya	104.52	2017
13	Libya	111.45	2018
14	Libya	121.63	2019
15	Libya	147.13	2020
16	South Sudan	56.32	2016
17	South Sudan	63.62	2017
18	South Sudan	138.84	2018
19	South Sudan	253.24	2019
20	South Sudan	262.21	2020
21	Ukraine	100.11	2016
22	Ukraine	117.41	2017
23	Ukraine	132.48	2018
24	Ukraine	150.93	2019
25	Ukraine	158.94	2020

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

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

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

```
Avg_Number_Ppl_Undernourished
1 6349.17
```

-- 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'

```
Avg_PCT_Area_Cultivated
1 18.28
```

-- 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

	Top5_Num_Undernourished	Country
1	200000	India
2	122400	China
3	32700	Democratic Republic of the Congo
4	30500	Pakistan
5	24600	Ethiopia

-- 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

	Bottom5_Num_Undernourished	Country
1	100	Albania
2	100	Armenia
3	100	Bosnia and Herzegovina
4	100	Cabo Verde
5	100	Croatia

-- 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

	Top5_Perc_Area_Cultivated	Country
1	63.0299987792969	Bangladesh
2	62.3300018310547	Comoros
3	60	Tokelau
4	60	Tuvalu
5	56.9300003051758	Republic of Moldova

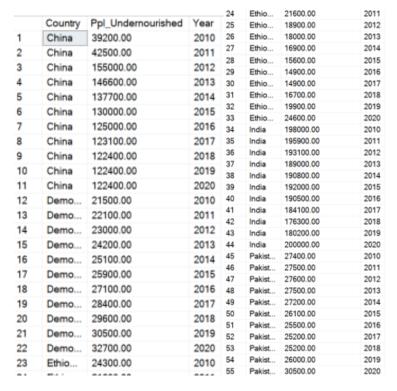
-- Bottom 5 countries of % area cultivated in 2020

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

	Bottom5_Perc_Area_Cultivated	Country
1	0.0500000007450581	Faroe Islands
2	0.0900000035762787	Djibouti
3	0.349999994039536	Oman
4	0.400000005960464	Mauritania
5	0.409999996423721	Suriname

-- 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')
```



-- 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')
```

	Country	Pct_Cultivated	Year	25 26	Republic	62.30 62.36	2012
1	Bangladesh	58.20	2010	27	Republic	58.08	2013
2	Bangladesh	57.44	2011	28	Republic	58.23	2015
3		57.41	2012	29	Republic	58.29	2016
	Bangladesh			30	Republic	58.35	2017
4	Bangladesh	58.45	2013	31	Republic	56.60	2018
5	Bangladesh	59.03	2014	32	Republic	56.77	2019
6	Bangladesh	59.77	2015	33	Republic	56.93	2020
7	Bangladesh	60.30	2016	34	Tokelau	60.00	2010
8	Bangladesh	60.42	2017	35	Tokelau	60.00	2011
9	Bangladesh	61.00	2018	36	Tokelau	60.00	2012
10	Bangladesh	62.65	2019	37	Tokelau	60.00	2013
				38	Tokelau	60.00	2014
11	Bangladesh	63.03	2020	39	Tokelau	60.00	2015
12	Comoros	63.41	2010	40	Tokelau Tokelau	60.00	2016
13	Comoros	63.41	2011	42	Tokelau	60.00	2017
14	Comoros	63.41	2012	43	Tokelau	60.00	2019
15	Comoros	63.41	2013	44	Tokelau	60.00	2020
16	Comoros	63.41	2014	45	Tuvalu	60.00	2010
17	Comoros	63.41	2015	46	Tuvalu	60.00	2011
				47	Tuvalu	60.00	2012
18	Comoros	62.87	2016	48	Tuvalu	60.00	2013
19	Comoros	62.33	2017	49	Tuvalu	60.00	2014
20	Comoros	62.33	2018	50	Tuvalu	60.00	2015
21	Comoros	62.33	2019	51	Tuvalu	60.00	2016
22	Comoros	62.33	2020	52	Tuvalu	60.00	2017
23	Republic	62.39	2010	53	Tuvalu	60.00	2018
				54	Tuvalu	60.00	2019
24	Republic	62.33	2011	55	Tuvalu	60.00	2020