#finding the Happiest years for the world score for each year

SELECT Year, AVG(Happiness\_Score) as AverageHappiness

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

#Sorting years by each categories

SELECT Year, AVG(Economy\_\_GDP\_per\_Capita\_) as EconomyRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

SELECT Year, AVG(Family) as familyRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

SELECT Year, AVG(Freedom) as FreedomRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

SELECT Year, AVG(Health\_\_Life\_Expectancy\_) as healthRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

SELECT Year, AVG(Trust\_\_Government\_Corruption\_) as GoodgovernmentRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

SELECT Year, AVG(Generosity) as GoodgovernmentRankperyear

FROM `mental-health-409002.survey.countries`

GROUP BY Year

ORDER BY Year;

#happiness score for each country over the years

SELECT Year, Country, Happiness\_Score

FROM `mental-health-409002.survey.countries`

ORDER BY Country, Year;

#each country yearly average happiness score

SELECT Year, Country, AVG(Happiness\_Score) AS AverageHappiness

FROM `mental-health-409002.survey.countries`

GROUP BY Year, Country

ORDER BY Country, Year;

#correlation of each factor to happiness score

SELECT CORR(Economy\_\_GDP\_per\_Capita\_, Happiness\_Score) AS GDP\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

SELECT CORR (Family, Happiness\_Score) AS Family\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

SELECT CORR (Health\_\_Life\_Expectancy\_, Happiness\_Score) AS Health\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

SELECT CORR (Freedom, Happiness\_Score) AS Freedom\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

SELECT CORR (Trust\_\_Government\_Corruption\_, Happiness\_Score) AS goodgovernment\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

SELECT CORR (Generosity, Happiness\_Score) AS Generosity\_Happiness\_Correlation

FROM `mental-health-409002.survey.countries`;

#top 30 happiest for each year

SELECT Year, Country, Happiness\_Score

FROM ( SELECT Year, Country, Happiness\_Score, RANK() OVER (PARTITION BY Year ORDER BY Happiness\_Score DESC) as Rank FROM `mental-health-409002.survey.countries`

) as Ranked

WHERE Rank <= 30

ORDER BY Year, Rank;

#top 30 countries for each factor

WITH RankedCountries AS (

SELECT

Year,

Country,

Economy\_\_GDP\_per\_Capita\_,

RANK() OVER (PARTITION BY Year ORDER BY Economy\_\_GDP\_per\_Capita\_ DESC) as GDP\_Rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Economy\_\_GDP\_per\_Capita\_,

GDP\_Rank

FROM

RankedCountries

WHERE

GDP\_Rank <= 30

ORDER BY

Year,

GDP\_Rank;

WITH RankedCountries AS (

SELECT

Year,

Country,

Family,

RANK() OVER (PARTITION BY Year ORDER BY Family DESC) as Family\_Rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Family,

Family\_Rank

FROM

RankedCountries

WHERE

Family\_Rank <= 30

ORDER BY

Year,

Family\_Rank;

WITH RankedCountries AS (

SELECT

Year,

Country,

Health\_\_Life\_Expectancy\_,

RANK() OVER (PARTITION BY Year ORDER BY Health\_\_Life\_Expectancy\_ DESC) as Health\_rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Health\_\_Life\_Expectancy\_,

Health\_rank

FROM

RankedCountries

WHERE

Health\_rank <= 30

ORDER BY

Year,

Health\_rank;

WITH RankedCountries AS (

SELECT

Year,

Country,

Freedom,

RANK() OVER (PARTITION BY Year ORDER BY Freedom DESC) as Freedom\_rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Freedom,

Freedom\_rank

FROM

RankedCountries

WHERE

Freedom\_rank <= 30

ORDER BY

Year,

Freedom\_rank;

WITH RankedCountries AS (

SELECT

Year,

Country,

Trust\_\_Government\_Corruption\_,

RANK() OVER (PARTITION BY Year ORDER BY Trust\_\_Government\_Corruption\_ DESC) as Governmenttrust\_rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Trust\_\_Government\_Corruption\_,

Governmenttrust\_rank

FROM

RankedCountries

WHERE

Governmenttrust\_rank <= 30

ORDER BY

Year,

Governmenttrust\_rank;

WITH RankedCountries AS (

SELECT

Year,

Country,

Generosity,

RANK() OVER (PARTITION BY Year ORDER BY Generosity DESC) as Generosity\_rank

FROM

`mental-health-409002.survey.countries`

WHERE

Year BETWEEN 2015 AND 2017

)

SELECT

Year,

Country,

Generosity,

Generosity\_rank

FROM

RankedCountries

WHERE

Generosity\_rank <= 30

ORDER BY

Year,

Generosity\_rank;