-- Exploratory Analysis

-- explore min and max values of life expectancy for each country

SELECT Country, MIN(`Life expectancy`), MAX(`Life expectancy`),

ROUND(MAX(`Life expectancy`) - MIN(`Life expectancy`),1) AS Life\_Increase\_15\_Years

GROUP BY Country

HAVING MIN(`Life expectancy`) <> 0

AND MAX(`Life expectancy`) <> 0

ORDER BY Life\_Increase\_15\_Years DESC; #ASC

SELECT Year, ROUND(AVG(`Life expectancy`), 2)

FROM world\_life\_expectancy

WHERE `Life expectancy` <> 0

GROUP BY Year

ORDER BY Year;

SELECT Country,

ROUND(AVG(`Life expectancy`), 1) AS Life\_Exp,

ROUND(AVG(GDP), 1) AS GDP

FROM world\_life\_expectancy

GROUP BY Country

HAVING Life\_Exp AND GDP > 0

ORDER BY GDP; #DESC

SELECT

SUM(CASE WHEN GDP >= 1500 THEN 1 ELSE 0 END) AS High\_GDP\_Count,

AVG(CASE WHEN GDP >= 1500 THEN `Life expectancy` ELSE NULL END) AS High\_GDP\_Life\_Expectancy,

SUM(CASE WHEN GDP < 1500 THEN 1 ELSE 0 END) AS Low\_GDP\_Count,

AVG(CASE WHEN GDP < 1500 THEN `Life expectancy` ELSE NULL END) AS Low\_GDP\_Life\_Expectancy

FROM

world\_life\_expectancy;

SELECT

Status,

COUNT(DISTINCT Country),

ROUND(AVG(`Life expectancy`), 1)

FROM

world\_life\_expectancy

GROUP BY

Status;

SELECT

Country,

ROUND(AVG(`Life expectancy`), 1) AS Life\_Exp,

ROUND(AVG(BMI), 1) AS BMI

FROM

world\_life\_expectancy

GROUP BY

Country

HAVING

Life\_Exp > 0

AND BMI > 0

ORDER BY

BMI; #DESC

SELECT

Country,

Year,

`Life expectancy`,

`Adult Mortality`,

SUM(`Adult Mortality`) OVER(PARTITION BY Country ORDER BY Year) AS Rolling\_Total

FROM

world\_life\_expectancy

#WHERE Country LIKE '%United%';

;