1)

# Single query that return minimum population,

# maximum population, minimum pop. growth and

# maximum population growth

SELECT min(CAST(population AS int64)) AS Min\_population, max(CAST(population AS int64)) AS Max\_population, min(population\_growth\_rate) AS Min\_population\_growth\_rate, max(population\_growth\_rate)AS Max\_population\_growth\_rate

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA" and population\_growth\_rate != "NA"

2)

# Query that returns the countries with minimum population

SELECT country, CAST(population AS int64) population

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA"

ORDER BY population

LIMIT 10

3)

# Query that returns the countries with maximum population

SELECT country, CAST(population AS int64) population

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA"

ORDER BY population DESC

LIMIT 10

4)

# Query that returns the average population and area.

SELECT AVG(CAST(population AS int64)) AS avg\_population, AVG(CAST(area AS int64)) AS avg\_area

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA" and area != "NA"

5)

# Query that returns the countries that are densely populated.

# This is done by selecting countries with above avg pop. and below avg. area.

SELECT country, CAST(population AS int64) as population, CAST(area AS int64) as area,

(SELECT AVG(CAST(population AS int64)) FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook` WHERE population != "NA") AS avg\_population,

(SELECT AVG(CAST(area AS int64)) FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook` WHERE area != "NA") AS avg\_area

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA" AND area != "NA" AND CAST(population AS int64) > (SELECT AVG(CAST(population AS int64)) FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook` WHERE population != "NA") AND CAST(area AS int64) < (SELECT AVG(CAST(area AS int64)) FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook` WHERE area != "NA")

6)

# Query that returns the most densely populated countries.

SELECT country, (CAST(population AS int64) / CAST(area AS int64) ) as Population\_density

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA" AND area != "NA" and area != "0"

ORDER By Population\_density DESC

LIMIT 5

7)

# Query that returns the country with the max population and

# the country with the highest growth rate.

SELECT

(SELECT country

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population != "NA"

ORDER BY CAST(population AS int64) DESC

LIMIT 1) AS country\_with\_most\_people,

(SELECT country

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population\_growth\_rate != "NA"

ORDER BY CAST(population\_growth\_rate AS float64) DESC

LIMIT 1) AS country\_with\_highest\_growth\_rate;

8)

# Query that return the countries with higher death rate than birth rate.

SELECT country,

CAST(death\_rate AS float64) AS death\_rate,

CAST(birth\_rate AS float64) AS birth\_rate

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE death\_rate != "NA" AND birth\_rate != "NA" AND CAST(death\_rate AS float64) > CAST(birth\_rate AS float64);

9)

# Query that return the countries that will add the most people to theri population in the next year.

SELECT country, (CAST(population AS int64) \* CAST(population\_growth\_rate AS float64) / 100) AS population\_added\_next\_year

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE population\_growth\_rate != "NA"

ORDER BY population\_added\_next\_year DESC

LIMIT 10;

10)

# Query that returns the countries with highest migration\_rate.

SELECT country, CAST(net\_migration\_rate AS float64) AS migration\_rate

FROM `coursera-projecct-1.CIA\_Factbook.cia\_factbook`

WHERE net\_migration\_rate != "NA"

ORDER BY migration\_rate DESC