```
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)
```sql
# 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)
```sql
# 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)
```sql
# 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
```