

## Upload Dataset

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World\_deve... X  
460.8KB

# Cluster Analysis – World Development Project

File loaded successfully!

## Data Overview

	Birth Rate	Business Tax Rate	CO2 Emissions	Country	Days to Start Business	Ease of Business	Energy Usage	C
0	0.02	None	87931	Algeria		None	None	26998 \$
1	0.05	None	9542	Angola		None	None	7499 \$
2	0.043	None	1617	Benin		None	None	1983 \$
3	0.027	None	4276	Botswana		None	None	1836 \$
4	0.046	None	1041	Burkina Faso		None	None	None \$

Rows: 2704 | Columns: 25

Column Names:

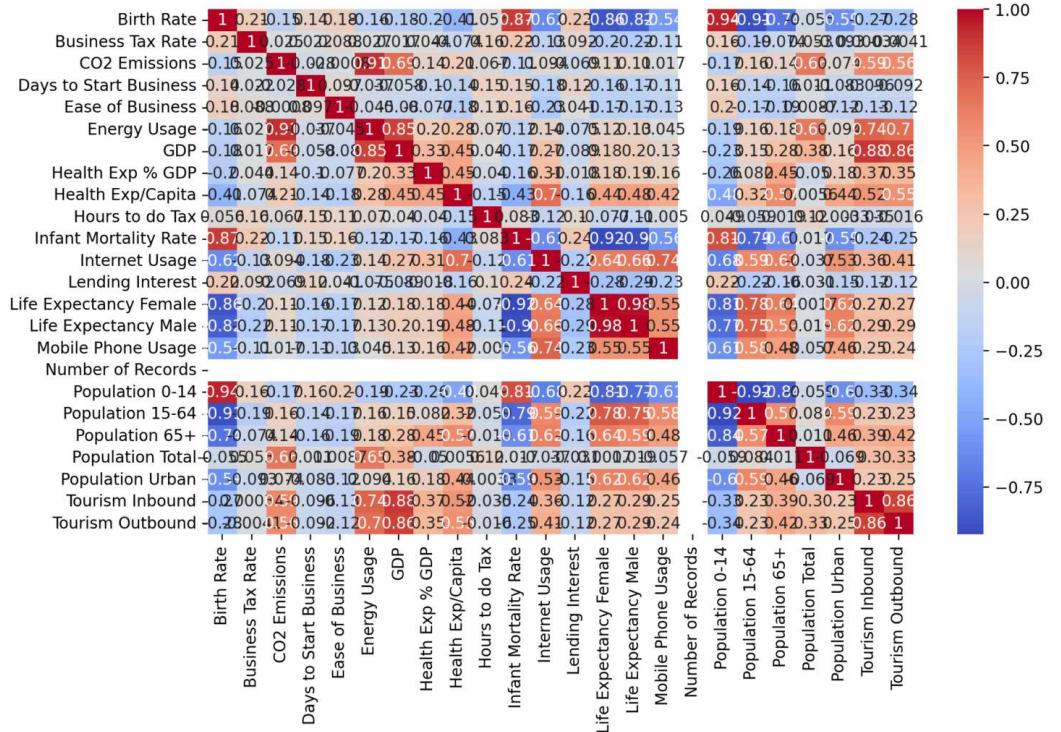
```

▼ [
  0 : "Birth Rate"
  1 : "Business Tax Rate"
  2 : "CO2 Emissions"
  3 : "Country"
  4 : "Days to Start Business"
  5 : "Ease of Business"
  6 : "Energy Usage"
  7 : "GDP"
  8 : "Health Exp % GDP"
  9 : "Health Exp/Capita"
  10 : "Hours to do Tax"
  11 : "Infant Mortality Rate"
  12 : "Internet Usage"
  13 : "Lending Interest"
  14 : "Life Expectancy Female"
  15 : "Life Expectancy Male"
  16 : "Mobile Phone Usage"
  17 : "Number of Records"
  18 : "Population 0-14"
  19 : "Population 15-64"
  20 : "Population 65+"
  21 : "Population Total"
  22 : "Population Urban"
  23 : "Tourism Inbound"
  24 : "Tourism Outbound"
]
  
```

## Data Cleaning

Missing values handled successfully.

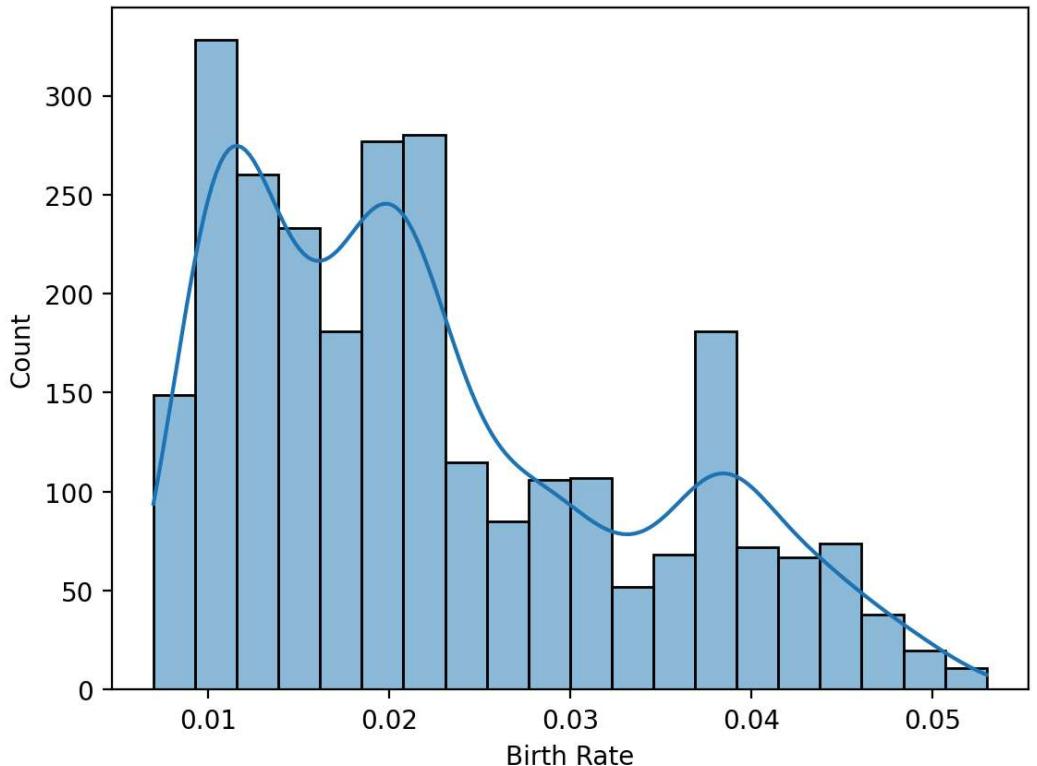
## Correlation Heatmap



## Histogram Distribution

Select a column:

Birth Rate



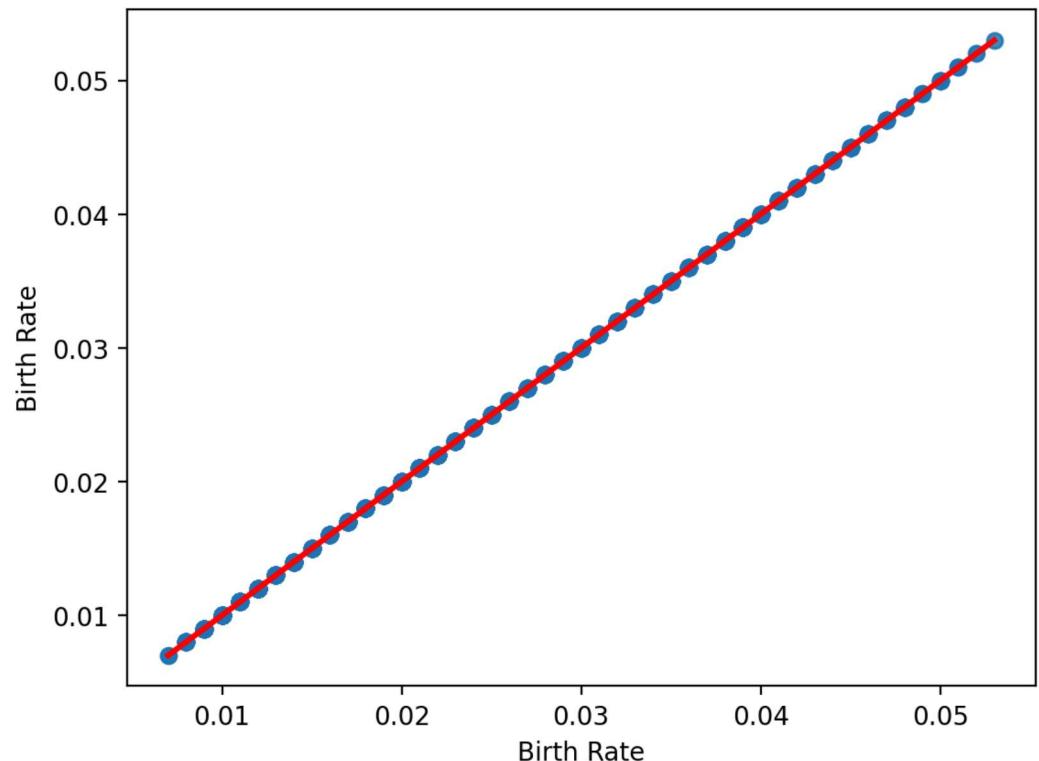
## Bivariate Analysis

Select X-axis:

Birth Rate

Select Y-axis:

Birth Rate



## K-Means Clustering

Select number of clusters (k):

5

Clustering done with 5 clusters.

	Cluster	Birth Rate	Business Tax Rate	CO2 Emissions	Days to Start Business	Ease of Business	Energy Usage	GDP
0	0	0.02	41	87931	26	94	26998	547900
1	2	0.05	41	9542	26	94	7499	91295
2	2	0.043	41	1617	26	94	1983	23591
3	2	0.027	41	4276	26	94	1836	57883
4	2	0.046	41	1041	26	94	14338	26109

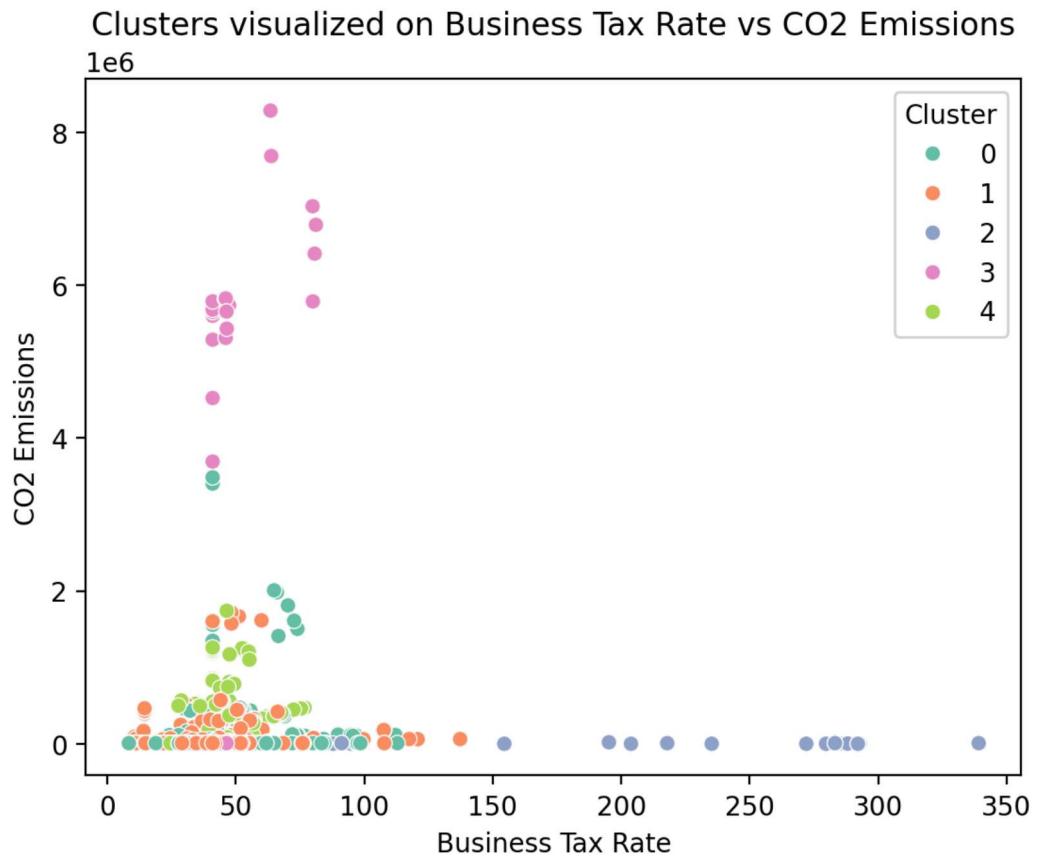
## Cluster Visualization

Select X-axis for cluster plot:

Business Tax Rate

Select Y-axis for cluster plot:

CO2 Emissions



### Cluster Summary

Cluster	Birth Rate	Business Tax Rate	CO2 Emissions	Days to Start Business	Ease of Business	Energy Usage	GDP
0	0.0221	41.8931	80555.324	40.8052	95.4187	36958.3606	75887265841.i
1	0.0139	40.4118	61668.2097	25.4759	91.8422	31939.2179	111346800303.i
2	0.0387	56.5162	6604.4406	45.5414	97.7549	13227.9383	12858841296.l
3	0.013	52.687	5120730.0435	22.9565	90.087	2130180.3478	9097725871986
4	0.0114	42.7626	243613.2143	16.8277	86.7269	133625.8109	1169694124584..