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World\_deve...  
460.8KB

# Cluster Analysis – World Development Project

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## Data Overview

	Birth Rate	Business Tax Rate	CO2 Emissions	Country	Days to Start Business	Ease of Business	Energy Usage	
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

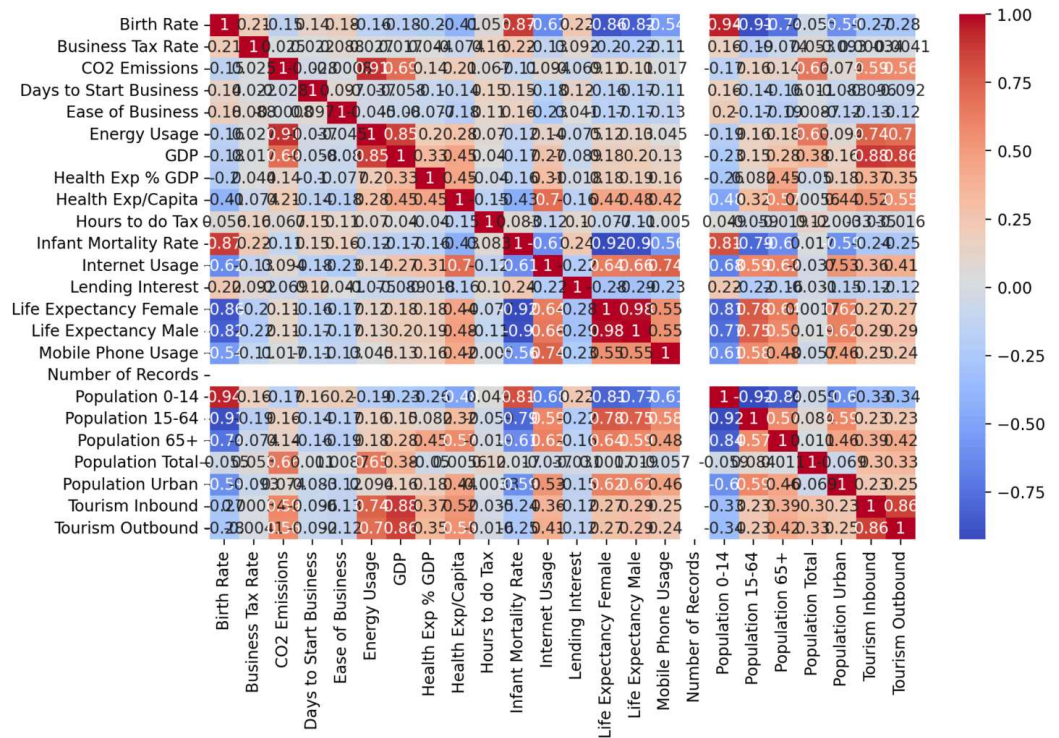
Column Names:

[  
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.

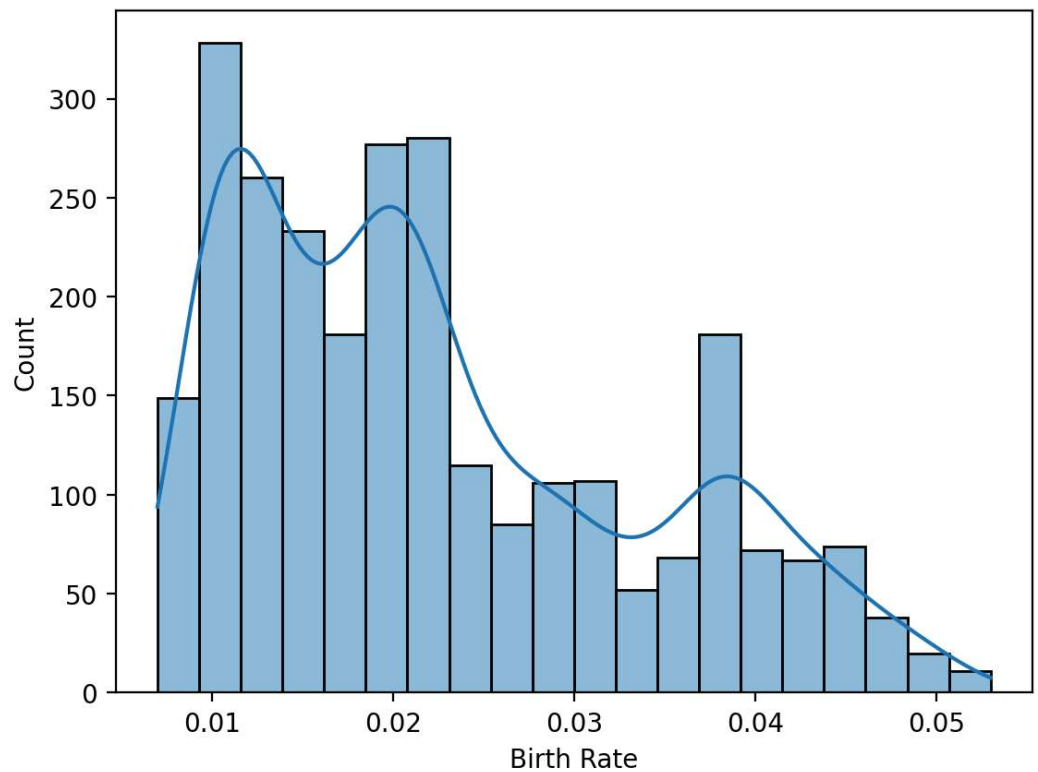
## Correlation Heatmap



## Histogram Distribution

Select a column:

Birth Rate



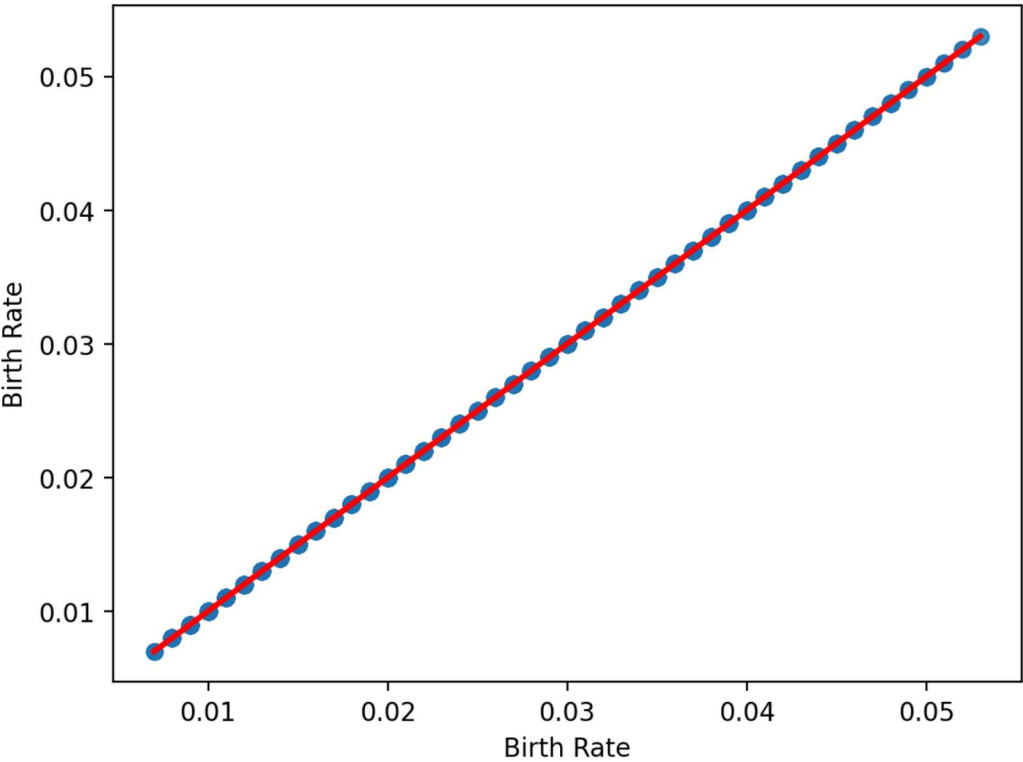
## Bivariate Analysis

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:

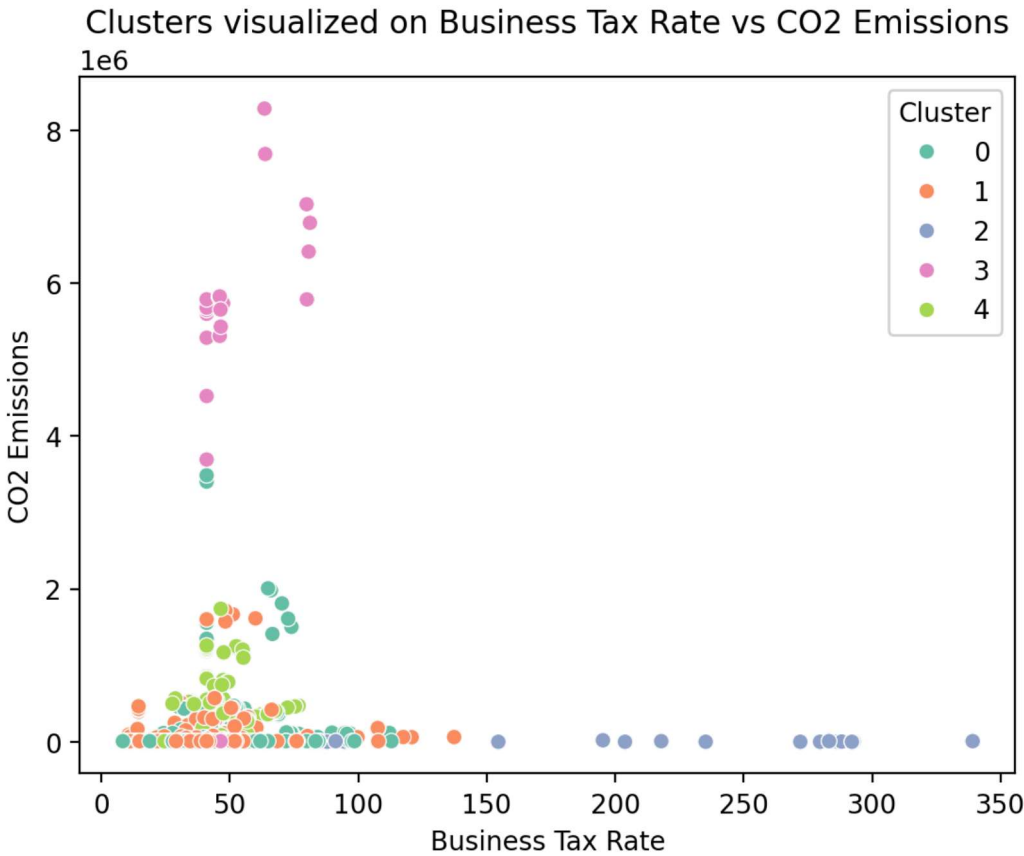
Business Tax Rate



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	75887265841.0
1	0.0139	40.4118	61668.2097	25.4759	91.8422	31939.2179	111346800303.0
2	0.0387	56.5162	6604.4406	45.5414	97.7549	13227.9383	12858841296.0
3	0.013	52.687	5120730.0435	22.9565	90.087	2130180.3478	9097725871986.0
4	0.0114	42.7626	243613.2143	16.8277	86.7269	133625.8109	1169694124584.0