

# GDP Growth Analysis Report

Prepared By: Abdul Saim Khan  
Client : XYZ World Bank  
Date: 31st Oct 2025

---

## Project Overview

**Business Problem:**

Here XYZ world Bank wants to know growth rate as per their indexes (Cost of Living Index, Rent Index, Groceries Index, Restaurant Price Index and Local Purchasing Power Index)

**Objective:**

By using countries GDP indexes data and advise them to make new policies.

- Detect **growth rate** of countries as per their indexes
  - Give **financial advice** to enhance their GDP growth rate.
- 

## Data Overview

- **Dataset Source:** Cost of living Index 2023
- **Data Size:** 139 Countries
- **Target Variable:** GDP Growth
- **Key Features Used:**

Feature	Description
Cost of Living Index	cost of standard of living
Rent Index	average rent price over the period of time
Groceries Index	prices of groceries over period of time
Restaurant Price Index	average price of food across different restaurants
Local Purchasing Power Index	consumption of goods & services by given amount

Rank	Country	Cost of Living Index	Rent Index	Cost of Living Plus Rent Index	Groceries Index	Restaurant Price Index	Local Purchasing Power Index
1	Afghanistan	20.37	2.72	12.09	14.92	12.41	23.04
2	Albania	35.5	8.47	22.83	29.32	25.82	30.19
3	Algeria	26.87	4.59	16.43	28.82	14.48	24.63
4	Argentina	34.69	7.71	22.04	28.17	33.32	30.72
5	Armenia	33.89	11.61	23.45	27.59	30.55	28.86
6	Australia	77.75	36.84	58.57	77.44	72.95	104.63
7	Austria	71.04	27.13	50.46	65.88	66.03	77.25
8	Azerbaijan	29.73	7.86	19.48	26.57	26.73	27.26
9	Bahamas	84	35.34	61.19	70.59	89.09	45.07
10	Bahrain	54.77	29.22	42.79	44.59	48.94	61.41
11	Bangladesh	33.13	4.42	19.67	30.41	21.7	25.3
12	Barbados	92.37	21.99	59.38	87.81	78.18	32.08
13	Belarus	30.89	9.81	21.01	27.24	31.64	31.78
14	Belgium	72.61	25.79	50.67	63.32	78.63	79.72
15	Belize	51.3	11.64	32.71	48.76	36.6	45.73
16	Bermuda	146.04	98.58	123.8	148.66	159.17	81.07
17	Bolivia	34.77	10.18	23.24	31.26	24.97	36.04
18	Bosnia And Herzegovina	36.12	6.82	22.39	31.14	25.34	44.1
19	Botswana	40.17	10.21	26.12	35.16	42.5	62.63
20	Brazil	33.24	8.27	21.54	28.16	25.24	27.85
21	Bulgaria	38.38	9.07	24.64	34.02	32.44	45.96
22	Cambodia	49.11	15.68	33.44	50.61	22.9	13.32
23	Cameroon	39.48	6.91	24.22	40.41	26.33	15.37
24	Canada	70.22	34.33	53.4	70.01	67.86	87.98
25	Chile	43.9	13.51	29.66	38.87	43.26	33.27
26	China	41.77	16.53	29.93	46.01	28.37	59.99
27	Colombia	26.72	8.18	18.03	23.47	19.44	28.85

## Key Insights (Data-Driven Findings) (SQL)

Top 5 countries as per living cost index and local purchasing power index

	country	living_cost	purchasing_power
►	Afghanistan	20	23.04
	Albania	36	30.19
	Algeria	27	24.63
	Argentina	35	30.72
	Armenia	34	28.86

Finding country's rent index above 10

Total 42 countries

country	Rent
Jordan	30.46
Zimbabwe	28.37
Venezuela	27.63
Dominican Republic	26.68
Nicaragua	25.13
Bulgaria	24.64
Malaysia	24.29
Cameroon	24.22
Philippines	24.18
Indonesia	23.65
Serbia	23.33
Albania	22.83
Bosnia And Herze...	22.39
Morocco	22.18
Kenya	22.11
Uganda	22.10
Argentina	22.04
Zambia	21.90
Brazil	21.54
Belarus	21.01
Somalia	20.79
Sri Lanka	20.48
Georgia	20.37
Moldova	20.20
Bangladesh	19.67
Kazakhstan	19.66
North Macedonia	19.51

Azerbaijan	19.48
Uzbekistan	18.86
Egypt	18.41
Turkey	18.15
Kosovo (Disputed ...	18.14
Colombia	18.03
Syria	17.70
Tunisia	17.30
Nepal	16.89
Algeria	16.43
India	15.47
Pakistan	12.42
Afghanistan	12.09

Finding country where Restaurant Price is greater than 70 but Groceries Index is below 50

	country	Restaurant_Price	Grocery_Price
▶	Suriname	79.61	45.92

Find country which is more average living cost index also high rent index

### Total 40 Country

	country	living_cost_index	rent_index
	Lebanon	70	24.81
	Luxemb...	81	60.09
	Macao	67	43.00
	Maldives	58	30.20
	Malta	68	29.72
	Netherla...	76	36.06
	New Zea...	75	34.44
	Norway	101	34.68
	Panama	51	21.75
	Qatar	63	48.20
	Seychelles	66	32.35
	Singapore	84	66.43
	South K...	73	20.02
	Spain	54	21.25
	Sweden	72	25.86
	Switzerl...	123	53.54
	United A...	58	43.28
	United Ki...	70	31.84
	United S...	70	42.07

	country	living_cost_index	rent_index
	Australia	78	36.84
	Austria	71	27.13
	Bahamas	84	35.34
	Bahrain	55	29.22
	Barbados	92	21.99
	Belgium	73	25.79
	Bermuda	146	98.58
	Canada	70	34.33
	Cyprus	59	22.36
	Denmark	84	33.23
	Finland	73	25.95
	France	74	25.33
	Germany	66	27.62
	Guernsey	84	54.02
	Hong Kong	81	74.57
	Iceland	95	41.93
	Ireland	76	42.08
	Israel	88	33.94
	Italy	66	20.55

Find the bottom 10 country with the lowest living cost but local purchasing power above 30

	country	living_cost	purchasing_power
▶	India	24	49.72
	Kosovo (Disputed Territory)	27	43.86
	Turkey	28	32.88
	Kazakhstan	29	32.23
	Georgia	30	31.15
	Moldova	30	33.43
	Ukraine	31	37.22
	Belarus	31	31.78
	North Macedonia	31	35.44
	Zambia	33	40.33

### Average of each index

	Avg_Living_cost	Avg_Rent	Avg_Living_Cost_and_Rent	Avg_Grocery	Avg_Restaurant_Price	Avg_Local_Purchasing_Power
▶	50.1799	19.291511	35.705324	46.637842	43.444892	46.426259

Find country where the difference between living cost and rent index is more than 50

	country	living_cost	rent	difference
▶	Barbados	92	21.99	70.01
	Denmark	84	33.23	50.77
	Iceland	95	41.93	53.07
	Israel	88	33.94	54.06
	Japan	77	25.86	51.14
	Norway	101	34.68	66.32
	South Korea	73	20.02	52.98
	Switzerland	123	53.54	69.46

---

## Predictive Power (Visualization) POWER BI

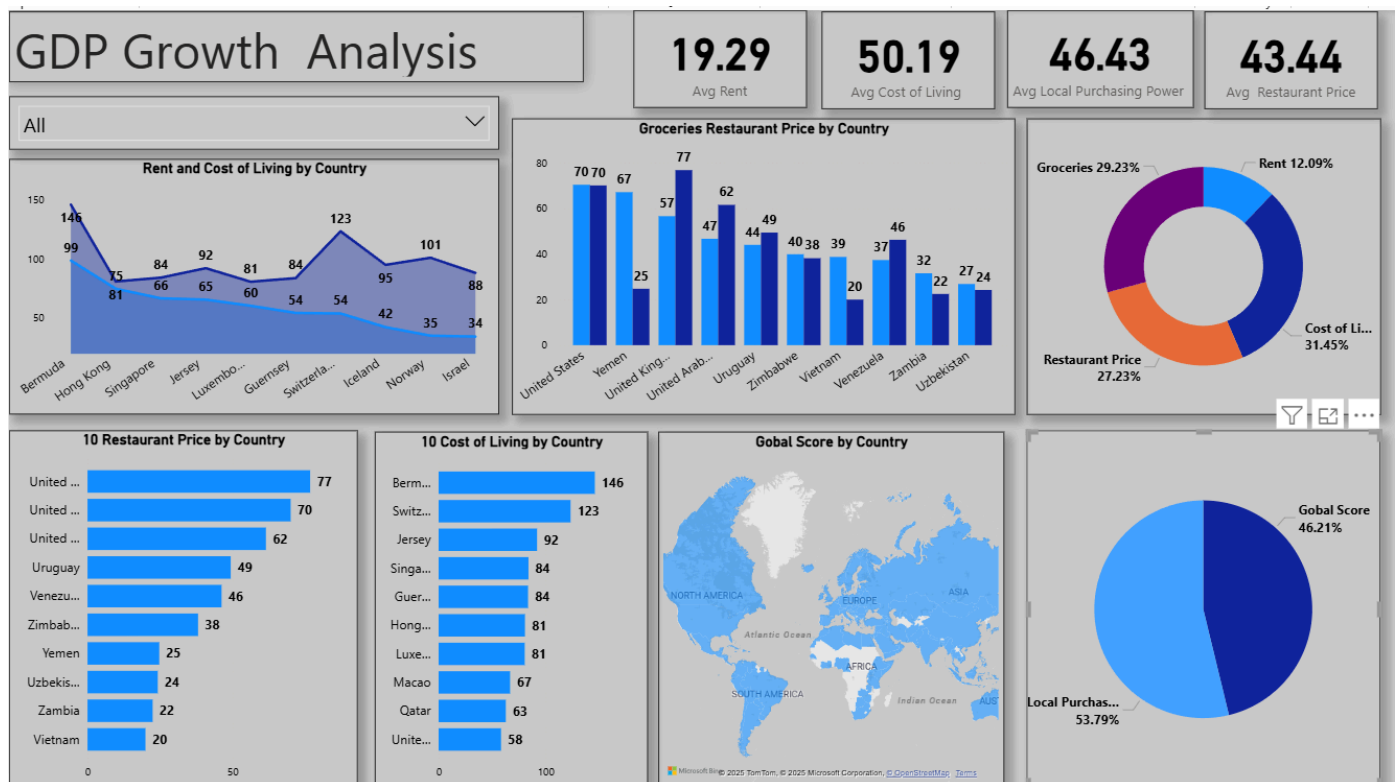
### Visualization Techniques Used

Several Power BI visuals were used to represent data patterns, trends, and comparisons clearly:

- **Bar Chart:**  
Used to compare numerical values such as Cost of Living Index by Country and Restaurant Price Index by Country.
- **Column Chart:**  
Used to compare numerical values such as Groceries Price Index and Restaurant Price Index by Country.
- **Line Charts:**  
Used to display trends over different indexes such as Rent Index and Cost of Living across Countries.

- Donut Charts:  
Used to show the proportion or percentage contribution of different indexes such as Rent, Groceries, Cost of Living and Restaurant Indexes.
- Pie Chart:  
Used to show the proportion or percentage contribution of Local Purchasing Power Index and Global Index.
- Cards (KPIs):  
Used to highlight key metrics like average rent, average cost of living, average local purchasing power, and average restaurant cost.
- Slicers and Filters:  
Added for interactive filtering based on Country for better clarity and user control.
- Map:  
Provides a quick geographic overview, helping in strategic decision-making and identifying regional trends.

## DASHBOARD



---

# Business Recommendations

Area	Recommendation	Expected Outcome
Market Expansion	Expand in low-cost countries (Vietnam, Zambia, Uzbekistan).	↓ Operational cost by 10–15%.
Pricing Strategy	Apply region-wise pricing based on cost of living.	↑ Profit margin by 8–12%.
Product Positioning	Launch premium products in high-cost regions.	↑ Revenue from premium buyers.
Investment Focus	Invest in high purchasing power markets.	↑ ROI and sales growth.
Cost Management	Track rent & cost trends to manage inflation.	Stable and predictable costs.
Resource Allocation	Focus marketing on balanced economies.	↑ Conversion rate by ~15%.