

COST OF LIVING ANALYSIS



PROJECT OVERVIEW

This project revolves around the analysis of the cost of living in various cities and countries across the globe. The dataset used for this analysis encompasses a wide range of economic indicators, from the price of basic commodities to the cost of housing, transportation, and even entertainment. By harnessing the power of Power BI, we aim to gain valuable insights into the economic disparities between different regions and understand the factors that contribute to the varying costs of living. This project serves as an exercise in data visualization, analysis, and interpretation, offering a comprehensive view of the world's economic landscape.

Methodology used in the Analysis

This project aims to explore and visualize the cost of living data to derive meaningful insights. It will involve data cleaning, transformation, and analysis using Power BI. The scope encompasses the following tasks:

- **Data preprocessing and cleaning to ensure data quality.**
- **Exploratory data analysis (EDA) to identify trends, outliers, and relationships among variables.**
- **Visualization of the cost of living data using Power BI's interactive features.**
- **Interpretation of the results to draw meaningful conclusions.**
- **Presentation of findings in a clear and concise manner.**



DATASET OVERVIEW

city	country	x1	x2	x3	x4	x5	x6	x7	x8	x9	x10	x11	x12	x13	x14	x15	x16	x17
Weifang	China	₹ 2.85	₹ 14.24	₹ 5.34	₹ 1.14	₹ 2.14	₹ 3.46	₹ 0.71	₹ 0.28	₹ 1.78	₹ 1.07	₹ 1	₹ 2.3525	₹ 8.54	₹ 3.13	₹ 8.54	₹ 1.14	
Heze	China	₹ 10.35	₹ 43.36	₹ 4.98	₹ 3.38	₹ 3.9425	₹ 4.27	₹ 0.5	₹ 0.25	₹ 1.78	₹ 2.53	₹ 1.82	₹ 0.85	₹ 11.39	₹ 3.13	₹ 22.78	₹ 2.28	
Yantai	China	₹ 2.85	₹ 22.78	₹ 4.98	₹ 1.14	₹ 2.14	₹ 3.56	₹ 0.45	₹ 0.28	₹ 1.78	₹ 1.19	₹ 0.78	₹ 2.3525	₹ 8.54	₹ 3.46	₹ 15.66	₹ 1.92	
Jiulin	China	₹ 2.35	₹ 21.35	₹ 4.48	₹ 3.38	₹ 2.85	₹ 4.02	₹ 0.65	₹ 0.3	₹ 1.57	₹ 1.67	₹ 1.28	₹ 1.34	₹ 9.96	₹ 5.79	₹ 13.29	₹ 2.28	
Liaocheng	China	₹ 10.35	₹ 43.36	₹ 5.12	₹ 3.38	₹ 3.9425	₹ 2.28	₹ 0.45	₹ 0.28	₹ 1.35	₹ 1.6129	₹ 0.43	₹ 2.9	₹ 9.4983	₹ 7.1697	₹ 13.52	₹ 2.7494	
Dezhou	China	₹ 2.99	₹ 21.35	₹ 4.70	₹ 0.85	₹ 2.14	₹ 3.08	₹ 0.43	₹ 0.28	₹ 2.04	₹ 1.16	₹ 0.82	₹ 1.37	₹ 11.45	₹ 4.19	₹ 11.58	₹ 1.29	
Taizhou	China	₹ 2.85	₹ 21.35	₹ 4.98	₹ 0.78	₹ 1.78	₹ 2.75	₹ 0.41	₹ 0.32	₹ 1.1486	₹ 1.6129	₹ 2.1873	₹ 2.3525	₹ 9.4983	₹ 7.1697	₹ 11.7223	₹ 1.07	
Pingdingshan	China	₹ 2.14	₹ 14.24	₹ 5.34	₹ 4.27	₹ 7.12	₹ 4.27	₹ 0.36	₹ 0.28	₹ 1.85	₹ 1.78	₹ 0.71	₹ 1.24	₹ 4.27	₹ 2.14	₹ 8.54	₹ 0.93	
Jiujiang	China	₹ 2.85	₹ 22.78	₹ 3.42	₹ 0.85	₹ 2.14	₹ 3.26	₹ 0.43	₹ 0.28	₹ 1.42	₹ 1.57	₹ 0.85	₹ 1.37	₹ 9.02	₹ 4.27	₹ 9.83	₹ 1.7	
Anqing	China	₹ 2.85	₹ 14.24	₹ 6.55	₹ 0.71	₹ 2.14	₹ 2.56	₹ 0.36	₹ 0.25	₹ 1.42	₹ 1.6129	₹ 0.71	₹ 1.71	₹ 13.52	₹ 2.56	₹ 11.39	₹ 2.14	
Huzhou	China	₹ 3.13	₹ 21.35	₹ 4.63	₹ 0.90	₹ 1.42	₹ 3.29	₹ 0.45	₹ 0.31	₹ 2.23	₹ 1.67	₹ 1.1	₹ 1.86	₹ 7.83	₹ 3.68	₹ 11.7	₹ 1.45	
Zaozhuang	China	₹ 2.85	₹ 21.35	₹ 4.27	₹ 1.14	₹ 1.99	₹ 2.73	₹ 0.42	₹ 0.25	₹ 2.33	₹ 1.11	₹ 0.59	₹ 1.09	₹ 9.4983	₹ 4.63	₹ 6.41	₹ 1.19	
Jiaozuo	China	₹ 2.14	₹ 17.08	₹ 4.27	₹ 0.78	₹ 2.28	₹ 3.27	₹ 0.44	₹ 0.28	₹ 1.77	₹ 1.71	₹ 0.73	₹ 1.48	₹ 17.79	₹ 2.33	₹ 10.92	₹ 1	
Rizhao	China	₹ 2.85	₹ 21.35	₹ 4.27	₹ 1.14	₹ 1.99	₹ 2.73	₹ 0.42	₹ 0.25	₹ 2.33	₹ 1.11	₹ 0.59	₹ 1.09	₹ 9.4983	₹ 4.63	₹ 6.41	₹ 1.19	
Ankang	China	₹ 2.85	₹ 17.08	₹ 4.98	₹ 0.71	₹ 2.56	₹ 3.42	₹ 0.42	₹ 0.28	₹ 1.81	₹ 1.11	₹ 1.67	₹ 1.54	₹ 10.63	₹ 3.24	₹ 8.4	₹ 1.32	
Huaibei	China	₹ 10.35	₹ 43.36	₹ 6.93	₹ 3.38	₹ 3.9425	₹ 2.755	₹ 1.5239	₹ 1.1198	₹ 1.1486	₹ 1.6129	₹ 2.1873	₹ 2.3525	₹ 9.4983	₹ 7.1697	₹ 11.7223	₹ 2.7494	
Huazhou	China	₹ 10.35	₹ 43.36	₹ 6.83	₹ 3.38	₹ 3.9425	₹ 1.71	₹ 0.43	₹ 0.28	₹ 3.42	₹ 0.94	₹ 0.63	₹ 2.03	₹ 11.39	₹ 3.45	₹ 8.79	₹ 1.57	
Huaiyin	China	₹ 5.69	₹ 39.86	₹ 5.69	₹ 1.14	₹ 4.27	₹ 3.56	₹ 0.53	₹ 0.33	₹ 2.74	₹ 2.61	₹ 1.22	₹ 2.22	₹ 18.35	₹ 4.86	₹ 13.12	₹ 2.26	
Kiangshui	China	₹ 3.20	₹ 19.22	₹ 4.98	₹ 0.78	₹ 1.42	₹ 3.56	₹ 0.41	₹ 0.28	₹ 1.42	₹ 1.42	₹ 0.71	₹ 2.3525	₹ 11.39	₹ 7.12	₹ 9.96	₹ 0.85	
Dingzhou	China	₹ 7.12	₹ 43.36	₹ 4.98	₹ 0.71	₹ 1.42	₹ 2.61	₹ 0.38	₹ 1.1198	₹ 2.14	₹ 0.85	₹ 0.43	₹ 2.3525	₹ 7.12	₹ 1.78	₹ 7.83	₹ 1.28	
Gongzhuling	China	₹ 2.85	₹ 17.08	₹ 5.69	₹ 0.71	₹ 2.14	₹ 2.37	₹ 0.46	₹ 0.25	₹ 1.35	₹ 1.57	₹ 0.71	₹ 4.78	₹ 13.52	₹ 3.56	₹ 12.46	₹ 2.7	
Barquisimeto	Venezuela	₹ 8.50	₹ 30.00	₹ 8.00	₹ 2.00	₹ 1.7	₹ 1.25	₹ 1	₹ 1	₹ 1.09	₹ 1.15	₹ 1.3	₹ 1.97	₹ 4.21	₹ 5.5	₹ 4.4	₹ 3	
Keja	Nigeria	₹ 1.01	₹ 11.26	₹ 2.25	₹ 0.79	₹ 0.9	₹ 0.45	₹ 0.23	₹ 0.17	₹ 0.79	₹ 0.84	₹ 0.68	₹ 1.41	₹ 0.9	₹ 1.8	₹ 2.25	₹ 1.35	
Comodoro Riv	Argentina	₹ 6.86	₹ 34.52	₹ 6.12	₹ 1.79	₹ 2.1	₹ 2.53	₹ 1.69	₹ 1.69	₹ 1.1486	₹ 1.6129	₹ 2.1873	₹ 2.3525	₹ 9.4983	₹ 7.1697	₹ 11.7223	₹ 2.7494	
Bouake	Ivory Coast	₹ 3.21	₹ 32.13	₹ 8.84	₹ 0.96	₹ 2.41	₹ 2.46	₹ 0.76	₹ 0.63	₹ 1.75	₹ 0.56	₹ 1.1	₹ 2.03	₹ 12.32	₹ 8.33	₹ 6	₹ 2.68	
Ta'izz	Yemen	₹ 5.99	₹ 17.97	₹ 9.00	₹ 2.00	₹ 1.8	₹ 2.9	₹ 1.05	₹ 0.72	₹ 2.01	₹ 1.2	₹ 3.65	₹ 3.13	₹ 7.13	₹ 8.79	₹ 22.82	₹ 4.99	
Tuxtla	Mexico	₹ 4.64	₹ 23.85	₹ 5.16	₹ 7.48	₹ 2.32	₹ 3.09	₹ 0.93	₹ 0.64	₹ 1.22	₹ 1.88	₹ 1.44	₹ 3.06	₹ 6.19	₹ 7.48	₹ 9.54	₹ 2.17	

4957 rows, 56 columns

DATASET OVERVIEW

Countries

215

Cities

4.898K

Education Cost

\$45.89M

Food & Beverages Cost

\$456.87K

Housing Cost

\$44.99M

Average Salary

\$9.03M

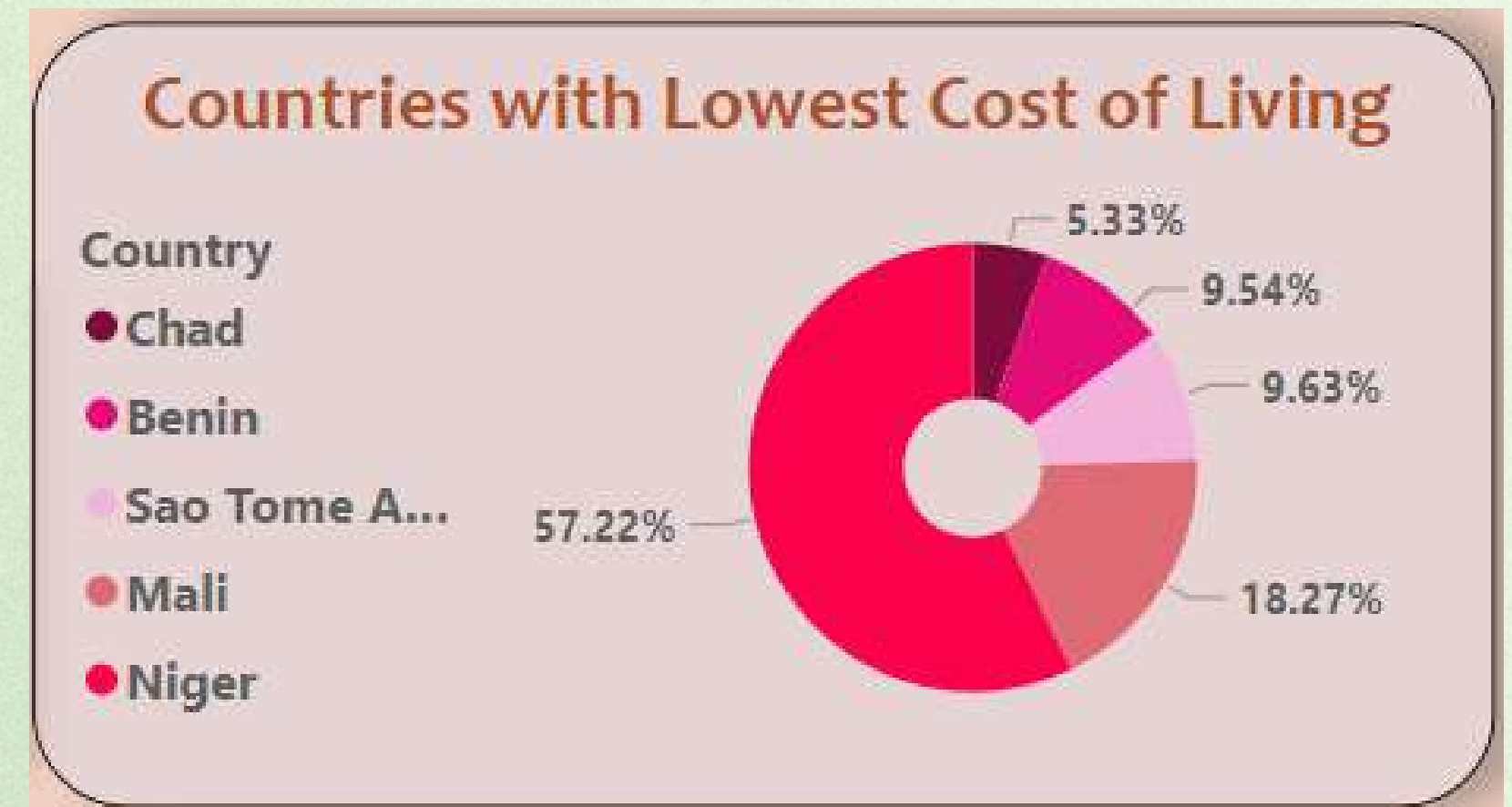
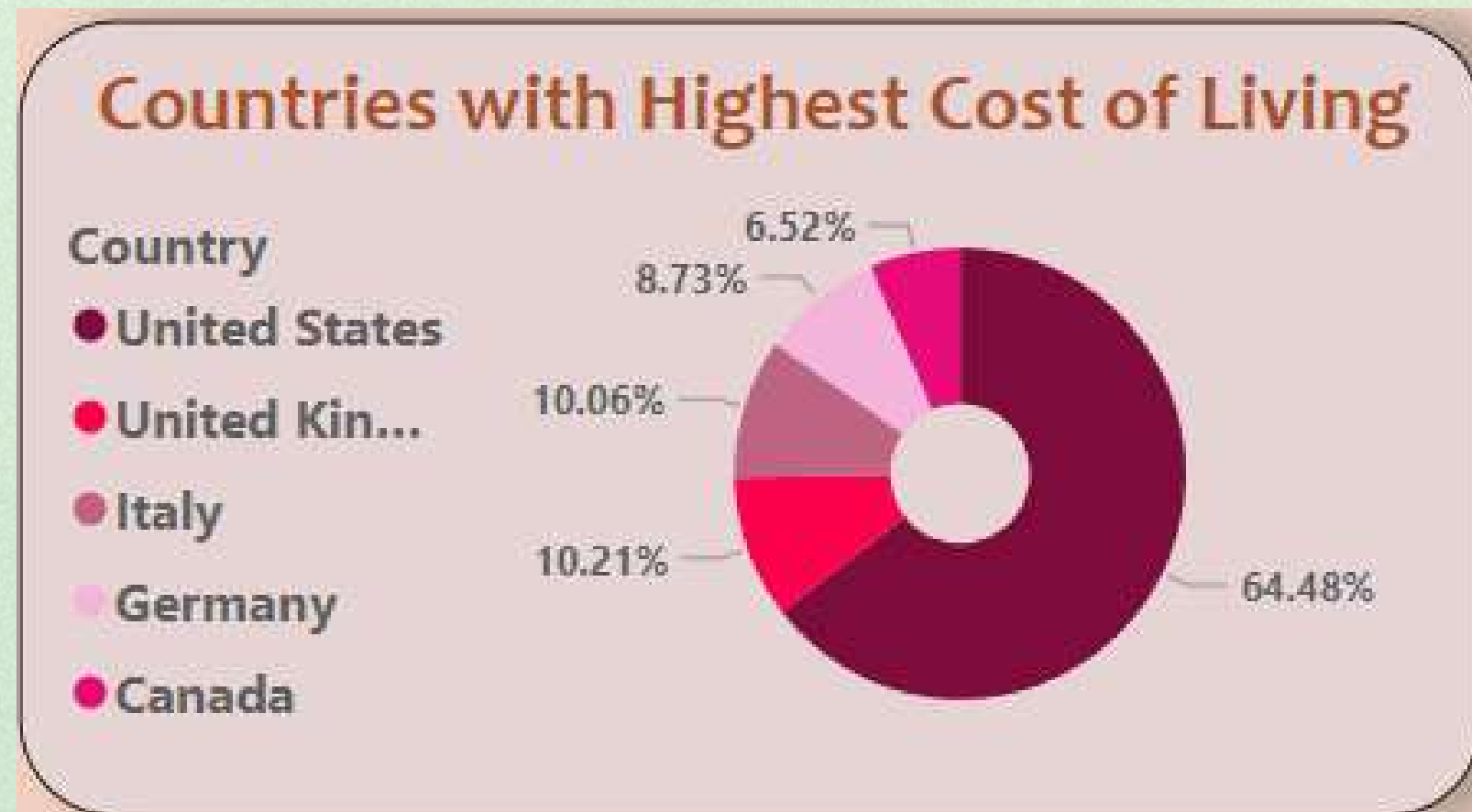
Lifestyle Cost

\$239.40M

Transportation Cost

\$337.17K

WHAT ARE COUNTRIES WITH THE HIGHEST AND LOWEST COSTS OF LIVING?



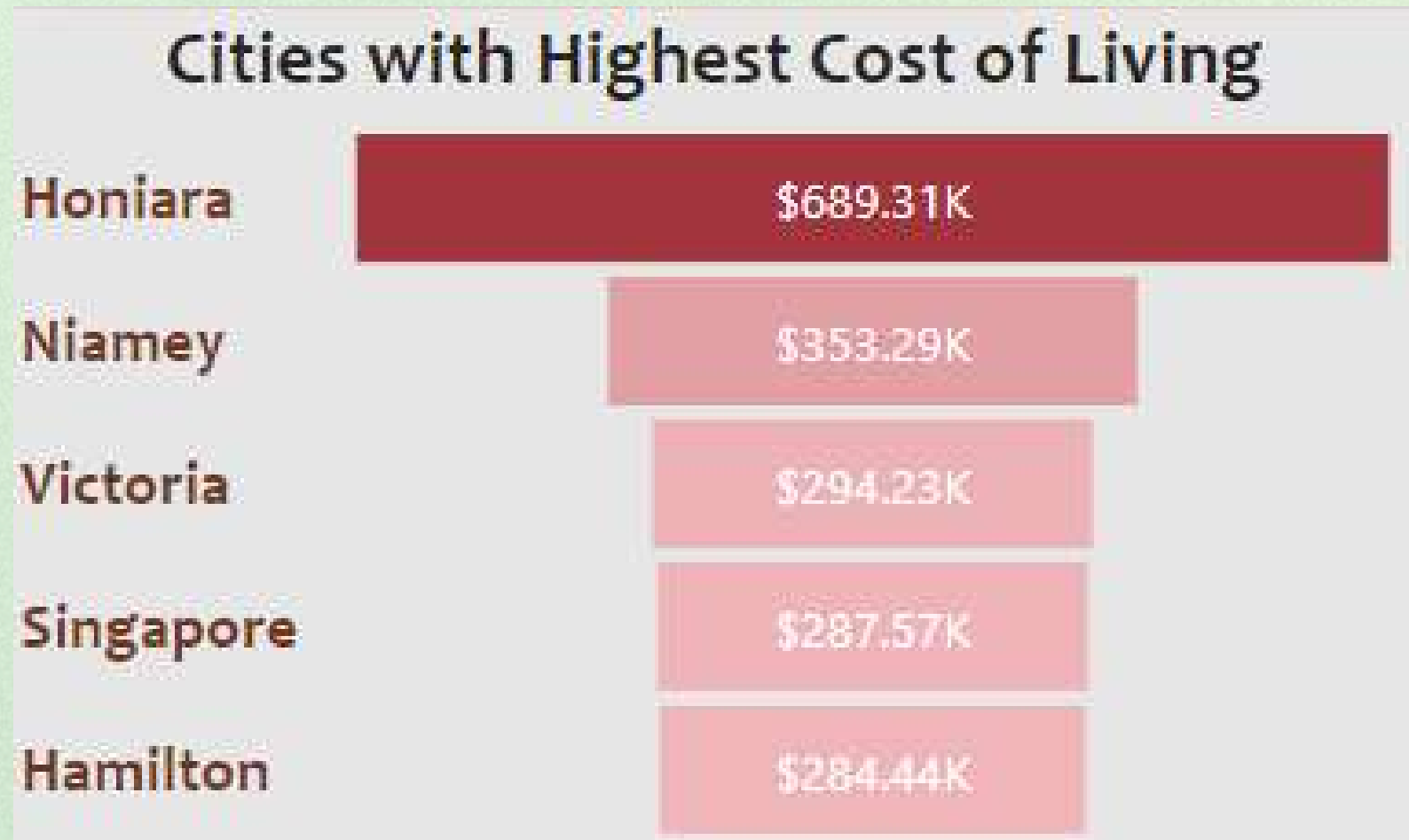
HIGHEST : United States totals to 64.48% of cost of living.

United Kingdom coming second with 10.21%

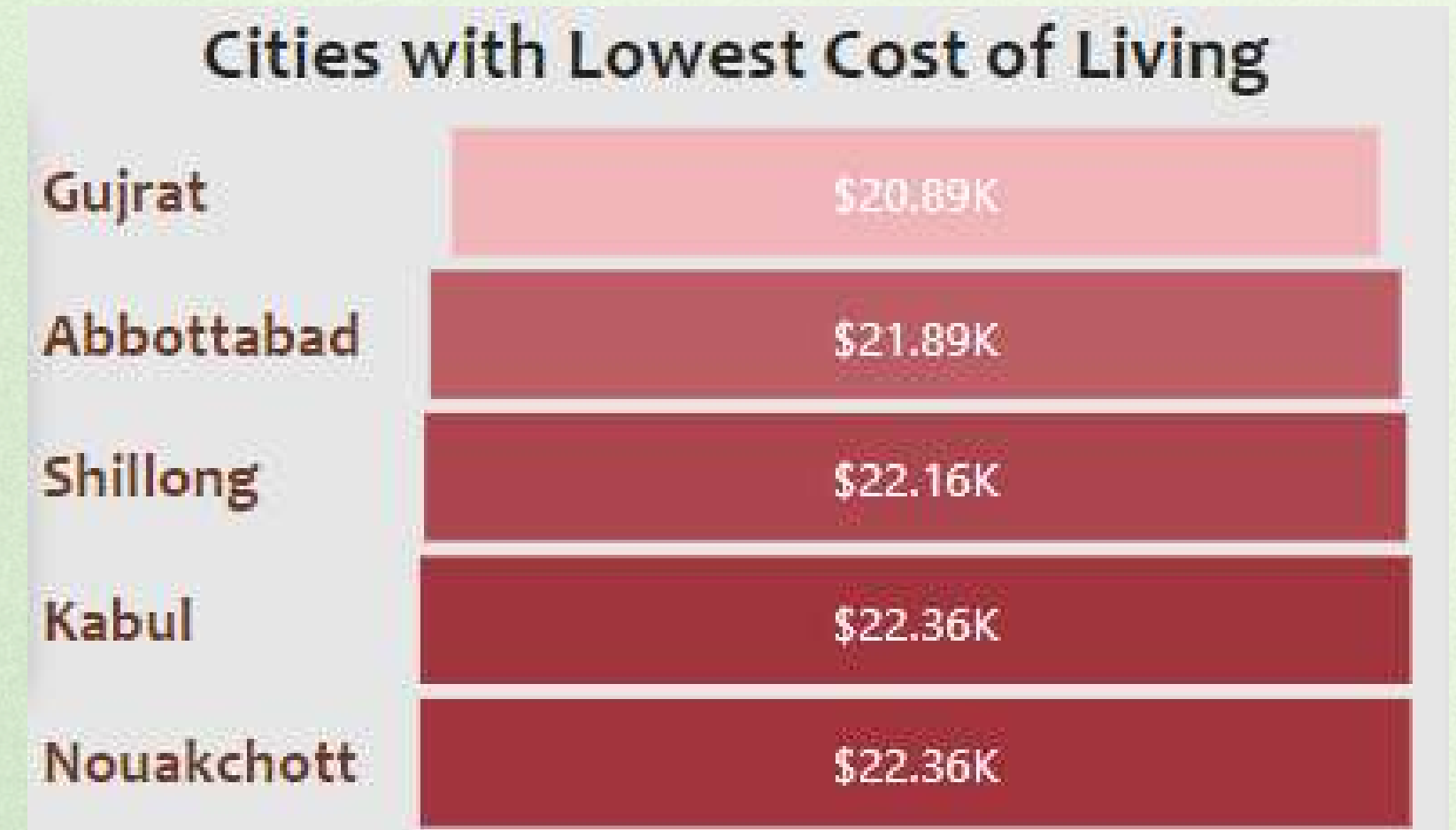
LOWEST : Chad totals to just 5.33% of cost of living.

Benin coming second with 9.54%

WHAT ARE CITIES WITH THE HIGHEST AND LOWEST COSTS OF LIVING?

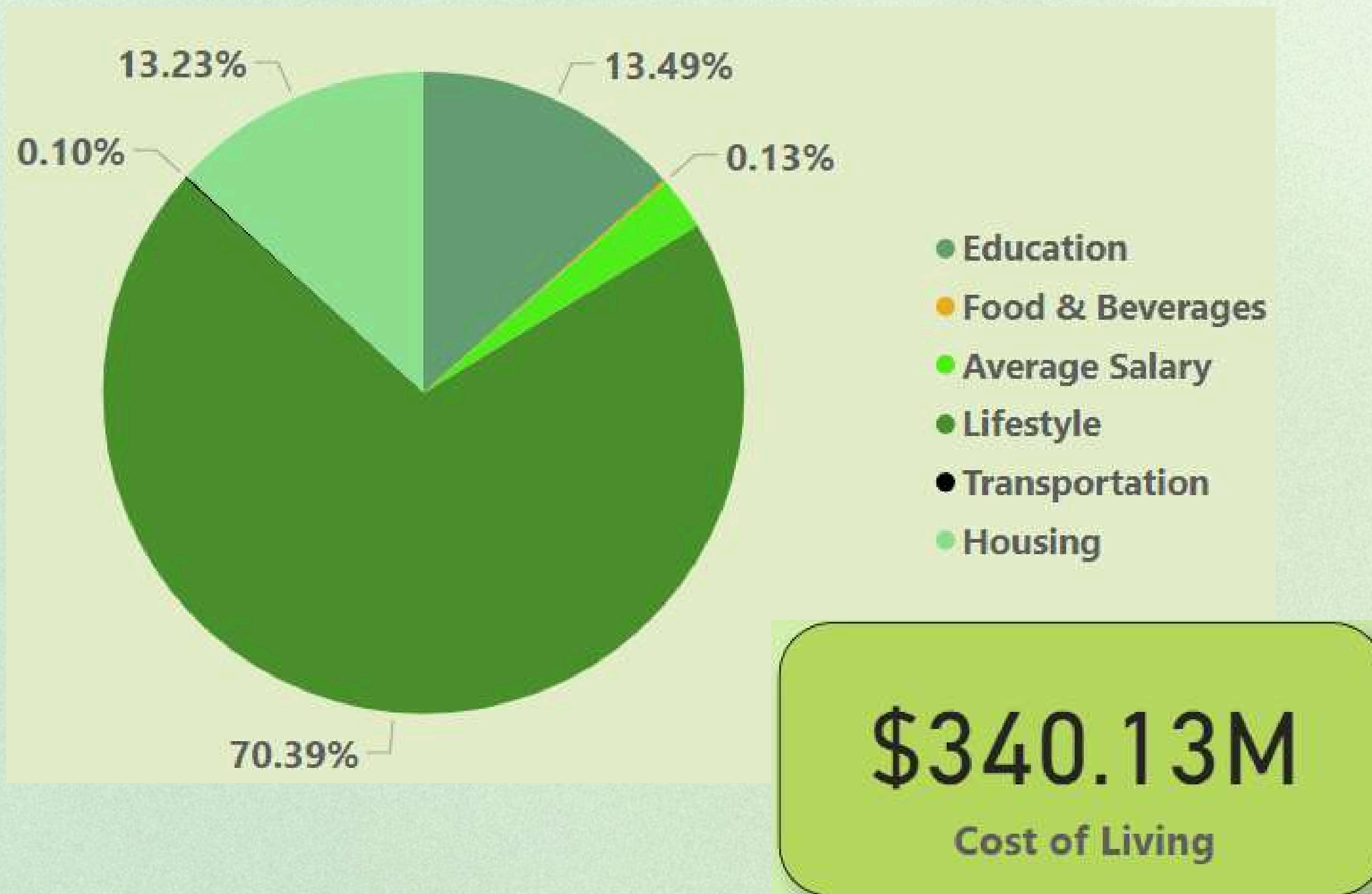


- **HONIARA** has the highest cost of living.
- **NIAMEY** coming second among the rest of the cities.



- **GUJRAT** has the lowest cost of living.
- **ABBOTTABAD** has second lowest cost of living.

WHAT ARE THE MAJOR COST COMPONENTS CONTRIBUTING TO THE OVERALL COST OF LIVING IN A REGION?



Out of total Cost of Living of \$340.13M, **LIFESTYLE** has major contribution of **70.39%** whereas **TRANSPORTATION** has least contribution of **0.10%**

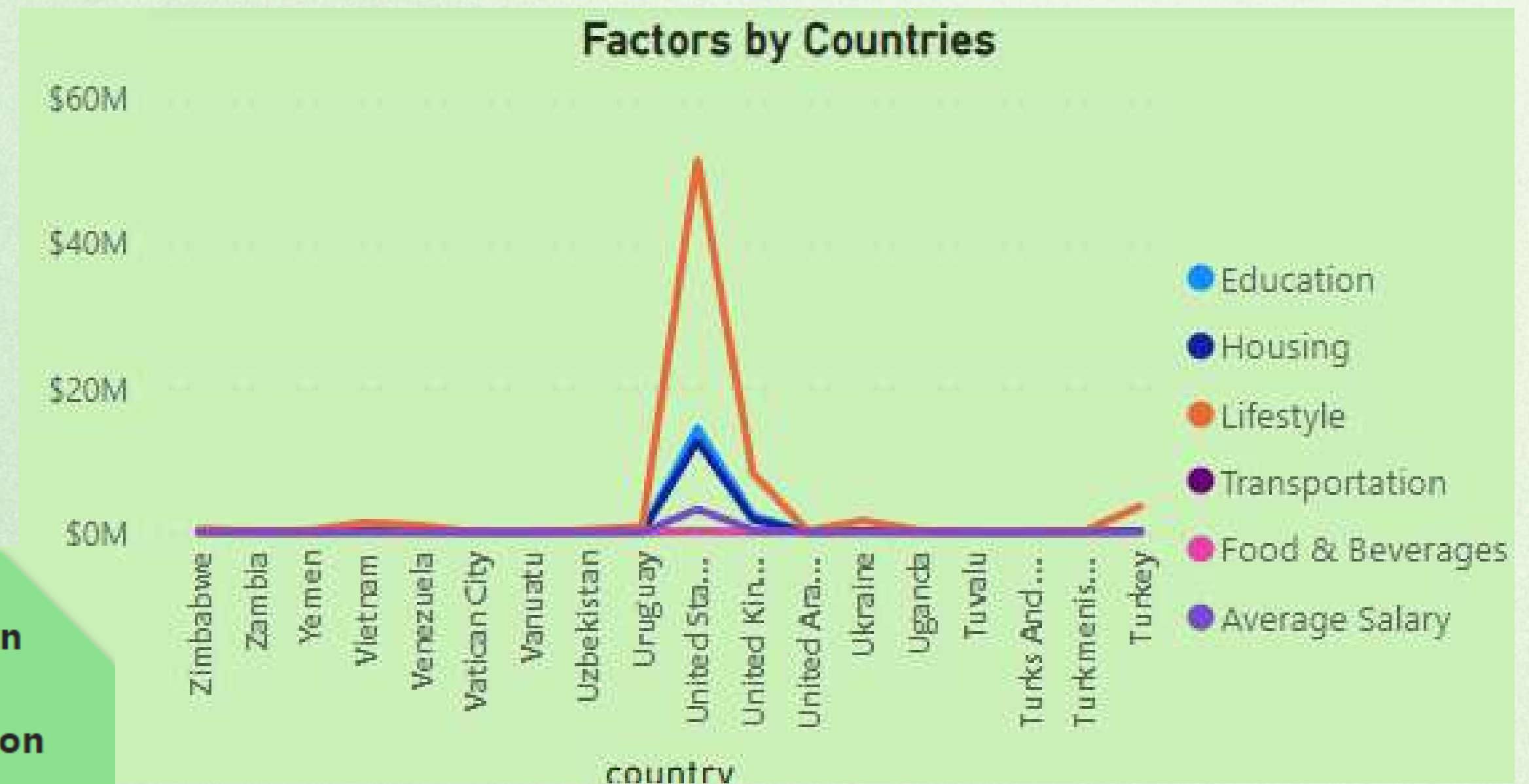
HOW DO FACTORS LIKE AVERAGE SALARY, HOUSING COSTS, AND TRANSPORTATION EXPENSES CORRELATE WITH THE COST OF LIVING?



It is quite visible from all the three plots that **POITIVE CORRELATION** exists between Cost of Living & Avg Salary, Housing Cost and Transportation cost.

ARE THERE ANY TRENDS OR PATTERNS IN THE DATA THAT CAN HELP INDIVIDUALS AND ORGANIZATIONS MAKE STRATEGIC DECISIONS?

United States tops the list of countries in every factor namely, Education cost, Housing cost, Lifestyle cost, Transportation cost, Food & Beverages cost and Average salary. Other countries having high costs include Italy, Russia, India and Brazil. Lifestyle costs sums to be the highest cost among all the rest costs.



**THANK YOU
SO MUCH!**

DATA ANALYST
ISHIKA JAIN

ishikajain2032@gmail.com