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paper text:

Running head: THE COST OF LIVING The Cost Of Living Student Full Name
Institutional Affiliation Instructor Course Due date The Cost Of Living Title: To
Identifying Relationships Between Variables that cause the cost of living in Alexandria,
VA, United States. Introduction Alexandria is a former British colony situated in
Virginia, USA. The city is located along the Potomac River, on the western side. The
population in 2016 was estimated to be 155,810 people. The city's major population
comprises people U.S military, federal civil service, and other companies providing
services to the federal government under contract. The major employers of the
Alexandria population are the institute of defense analysis, the National Science

**9Foundation, the United States, Patent and Trademark
Office, and the U.S**

defense department. Alexandria is also home to many organizations, profit and
non-profit, religious centers, charities, trade associations, among many others.
Approximately 87 percent of the people working in the city commute while 13 percent
of the workforce lives in the city. The basic costs include rent, electricity bills,

healthcare, food, childcare (kindergarten/nursery school fees), and transportation. On the analysis done, the cost of living index with rent exempted is 1,213.78 dollars for one person, an amount which increases to 4,421.70 dollars for four people without rent. In the rank on the cost of living, Alexandria is in the 26th out of two hundred and fifty-seven cities. The cost of living index for Alexandria is at 90.58. The cost of living, as statistics show, is 56.1% higher than the average national. In 2020 the prices went up by an average of 3.1 percent, with the largest increase being transportation, housing, and food. The analysis was done on the cost of living and the data obtained from the national cost of living statistics board. The data was then presented on a scatter line graph to indicate the significance of the regression model. The scatter linear graph figure indicates a positive linear relationship between the variables and the costs indicated. However, the cost of living varies from person-person depending on factors such as lifestyle and family size (Tan, et al, 2020). A varied example is where one works in the city; therefore, work is located at just a walking distance. Therefore, the cost of living would be lower compared to one living at a place where they'd have to commute daily, paying for transport in a subway or fuel expenses. Childcare costs may vary with the needs of particular children and their age. Very young children require more specialized care due to their greater attention demand. On the other hand, older children who require less attention can be taken to a general school, hence reducing child care expenses. Families with more children would also undergo higher costs compared to families with few or no children. Design and Analysis The data five variables with its associate costs were analyzed using Excel.

5Data analysis was in line with specific objectives where patterns were investigated, interpreted and implications drawn on them.

Scatter plot, linear model, and was done to determine the relationship between the variables and the trend. A correlation was also done to aids in locating the critically important variables on which others depend Findings Equation of the linear model equation $y = 1397.6x - 2208.4$ 1397.6 is the slope of the line, -2208.4 is the intercept

The slope predicts the change in y when x increases by one unit. As the variables increases by one unit, the cost is the associate decreases by 2208.4. R squared $R^2 = 0.788$ 78% of the variation in costs associated is accounted for by its regression on the variables.

1 This indicates the statistical significance of the regression model that was run. Here, $p < 0.05$, which is less than 0.05, indicates that, overall, the regression model statistically significantly predicts the outcome variable (i.e., it is a good fit for the data). Looking at the

preceding scatter linear graph figure, you can see that a positive and positive linear relationship does appear between the variables and the costs associated. r is relatively close to 1; hence the predicted and the actual values are close together 0.888 +0.70 hence strong uphill (positive) linear relation. Sports &

12leisure-fitness club, monthly Fee for 1 Adult

is the best predictor and salaries & finances-Average Monthly Net Salary (After Tax) is the worst predictor because it

7has a large residual value and may represent erroneous data, or may indicate a poorly fitting regression line.

Even though different cities have a different cost of living for various reasons such as Utilities, leisure, childcare, rent, salaries differ across the cities. To Identifying Relationships between Variables that cause the cost of living in Alexandria, VA, United States. Summary • Four-person family monthly costs: 482,633.76KSh (4,425.80\$)

4without rent (using our estimator). • A single person
monthly costs:

132,362.88KSh (1,213.78\$)

4without rent. • The cost of living index in Alexandria is 131
.98%. • Rent in

Alexandria is, on average, 357.46%. • The

6cost of living ranks 26th out of 587 cities in the world. •
Alexandria has a cost of living index of 90.58. Conclusion From

the findings, it was found that there was a linear relationship that appears between the
variables and the associated costs. A strong positive correlation exists between the
variables and the costs associated. The regression

11model is a good fit for the data.

References

3Tan, K. G., Tan, I. Y. E., Zhang, Y., & Chua, S. J. J. (2020).
Comparing Cost of Living and Affordability for Expatriates and
Ordinary Residents. World Scientific Book Chapters,

615-637. <https://mat117.wisconsin.edu/3-visualizing-quantitative-data/>

8Appendix ANOVA Model Sum of Squares df Mean Square F
Sig. 1 Regression Residual Total

19532997.360 5254752.679 24787750.040 1 3 4 19532997.360 1751584.226 11.152

.044b a. Dependent Variable: Costs b. Predictors: (Constant),

10 Variables Paired Samples Correlations N Correlation Sig.

Pair 1

Variable & Costs associated 5 .888 .044 7000 6500 6000 5500 costs associated(USD)

5000 4500 4000 3500 3000 2500 2000 1500 1000 500 0 152.86 54.17 $y = 1397.6x -$

2208.4 $R^2 = 0.788$ 1548.75 1996.36 6169.79 Series1 Linear (Series1) 0 1 2 3

Variables 4 5 6

21 THE COST OF LIVING 2 THE COST OF LIVING 3 THE
COST OF LIVING 4 THE COST OF LIVING 5 THE COST OF
LIVING 6 THE COST OF LIVING 7