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Data Article

Statistical analysis of bank deposits dataset

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ABSTRACT

This article presents the statistical analysis of the deposit activities in each of the account types of a leading bank in Nigeria. The mean effect of these account types on the bank was determined using analysis of variance (ANOVA). Further test which include the Tukey's simultaneous test for differences of means was also conducted.

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Specifications Table

Subject area	Economics
More specific subject area	Banking and Finance, Social Statistics
Type of data	Table and text file
How data was acquired	Secondary data
Data format	Raw and partially analyzed (Descriptive and Inferential)
Experimental factors	Data sets on the amount of money deposited in a bank in different account types

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55	Experimental features	Observations on the number of customers that made deposit into the six various accounts of the bank and the amount they deposited.
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58	Data source location	The data was obtained from one of the leading banks in Nigeria
59	Data accessibility	All the data are available this data article
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Value of the data

- The data is useful in calculating loan to deposit ratio.
- The data could be used as one of vital tools in assessing bank competitiveness [1].
- The data analysis could be helpful in detecting non-performing loans (NPL) in credit management [2].
- The data could be helpful in monitoring off balance sheet engagements [3].
- The data could be used to monitor compliance to banking decision making and strategy implementation; for example, innovative savings products [4-6].
- The data analysis can be applied to monitor statutory policies and regulation; for example, the effect of monetary policies [7].
- The data can be extended to include behavioral attitudes and customer preferences for some types of accounts.

1. Data

The data in this article involves the amount of money (in Naira) deposited into six different account types available in a leading bank in Nigeria on a particular day in year 2017. It also gives information on the number of people that make deposits into the various account types.

The bank used has six different account types which we denote as Account Type 1 (Savings), Account Type 2 (Current), Account Type 3 (Corporate), Account Type 4, Account Type 5 and Account Type 6. Since the data is sensitive and a real life data, we would like to protect the privacy policy of the bank. Descriptive statistics was used to summarize the data and to provide plots for proper visualization and understanding. SPSS version 20 and Minitab version 17 were used for the analyses in this paper.

The data set is summarized in Table 1.

The information contained in Table 1 shows that more people patronize account type 1 which is savings account than any other account types but the total money deposited in the account is not necessarily the largest. The account type that attracts the highest deposits is account type 2 (current account), though, the number of depositors for this account type is not the highest but on the average, customers deposited the highest amount of money there. This is reasonable because in the real sense, current account holders could either be for personal, businesses, and corporate organizations.

A chart that summarizes the whole dataset is presented in Fig. 1.

The deposit patterns for account types 1-6 are provided in form of histogram in Figs. 2-7 respectively.

Also, the boxplot representing the mean amount deposited in the various account types is displayed in Fig. 8.

The impact of the current account is also being identified in the plot provided in Fig. 8.

The mean deposit in each account type with their respective 95% Confidence Interval (C.I) is displayed in Table 2.

The 95% confidence interval plot for the mean of the amount deposited in the various account types is displayed in Fig. 9.

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