Data to Decisions Qlik Journey through LendingClub Issued Loans Analysis (Qlik)

Business Problem:-

• The specific business problem revolves around the inadequacy of the current lending strategy, which is not sufficiently informed by comprehensive insights derived from LendingClub loan data. The institution struggles to assess borrower behavior and market dynamics effectively, resulting in challenges such as inaccurate risk identification, difficulties in predicting loan default rates, and the inability to dynamically adjust lending criteria to respond to evolving market conditions.

Business Requirements:-

• The business requirements involve the establishment of a robust data analytics framework that can extract meaningful insights from LendingClub issued loans data. This framework should enable the financial institution to gain a deep understanding of borrower behavior, identify high-risk segments, predict default rates accurately, and provide the necessary foundation for real-time adjustments to lending criteria. Additionally, the solution should be scalable, adaptable, and capable of integrating with existing systems to ensure seamless implementation.

DataSet Link:-

https://www.kaggle.com/datasets/husainsb/lendingclub-issued-loans

Data contains all the meta information regarding the columns described in the CSV files

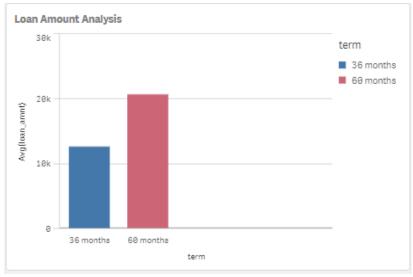
Column Description of the Dataset:

- ➤ member id:Contains unique member id of the members
- ➤ loan amnt:Contains the loan amount taken by members
- ➤ term:Contains the tenure for the loan amount
- ➤ int_rate:Rate of Interest for the loan_amount
- ➤ grade:Grades of the members

Data Visualization

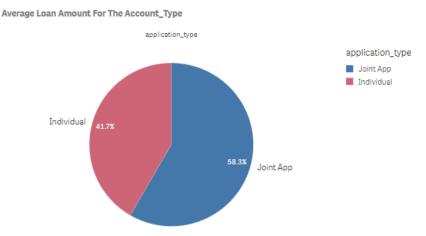
Data visualization is the process of creating graphical representations of data to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.

1)Loan Amount Analysis:-



This visualization contains the average loan amount taken by members for the tenure such as 36 months or 60 months.

2) Average Loan Amount For The Account_Type:-



The pie chart displays the distribution of application types, with Joint Applications comprising a larger portion at 58.3%, compared to Individual Applications at 41.7%. This highlights a preference for Joint Applications. The visual emphasizes the predominance of Joint Applications in the dataset.

3)Total Loan Amount:-

Total Loan Amount

Total Loan Amount

11.17G

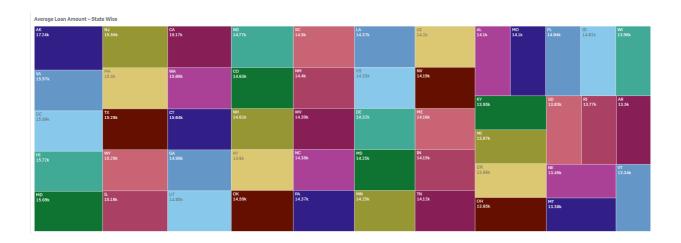
4)Total Number Of Loan Account:-

Total Number Of Loan Account

Total Number of Loan Acount

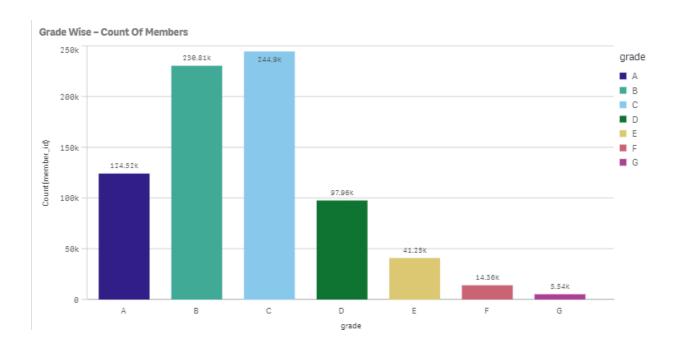
759.3k

5)Average Loan Amount - State Wise:-

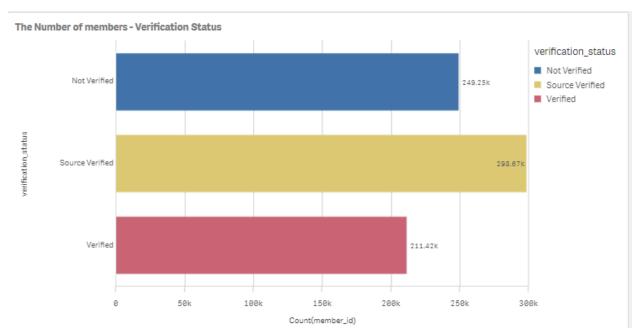


The chart gives us about the average loan amount state wise.

6) Grade Wise - Count Of Members:-

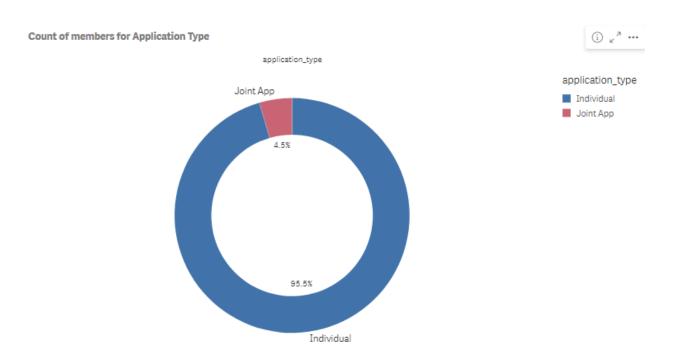


6) Verification Status:-



The bar tells about the verfication status. In this source verification are happen more than the others.

7)Count of members for Account type:-



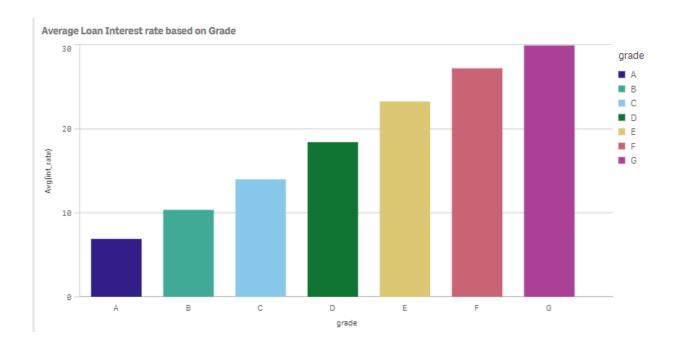
8)Average Loan Amount:-

Average Loan Amount

Avg(loan_amnt)

14.71k

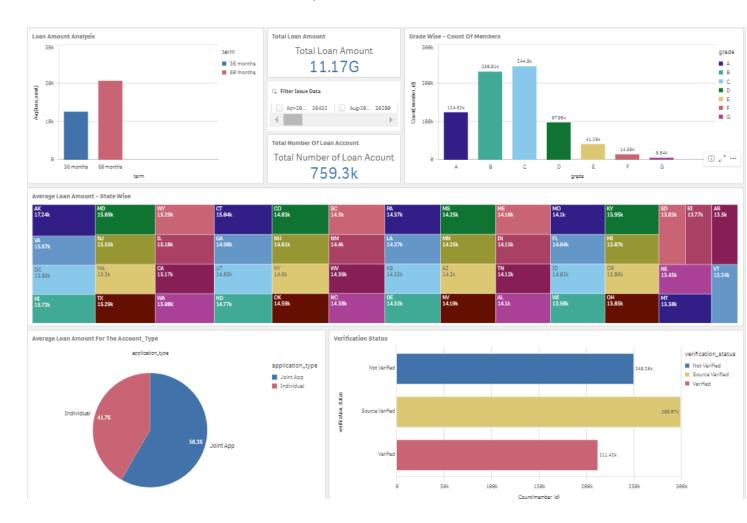
9) Average Loan Interest rate based on Grade:-



DASHBOARDS

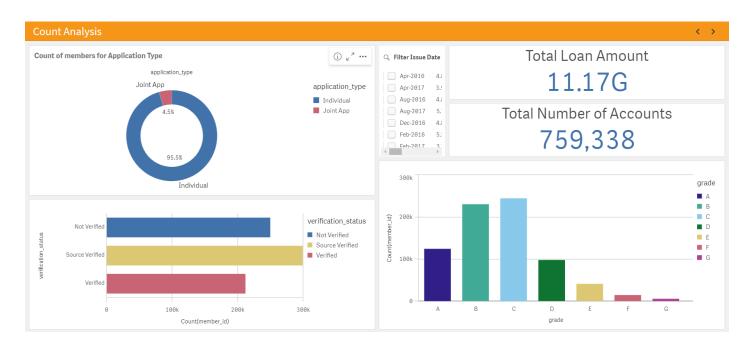
Dashboard 1: Average Loan Amount Analysis

https://hnnwxia0u7qjbbz.sg.qlikcloud.com/sense/app/bbbfab4f-6cc1-4fe5-9856-79c060f23ce2/sheet/EtDacR/state/analysis

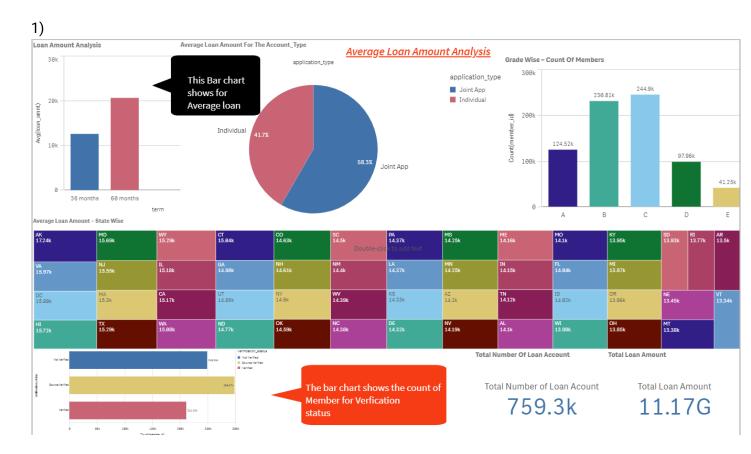


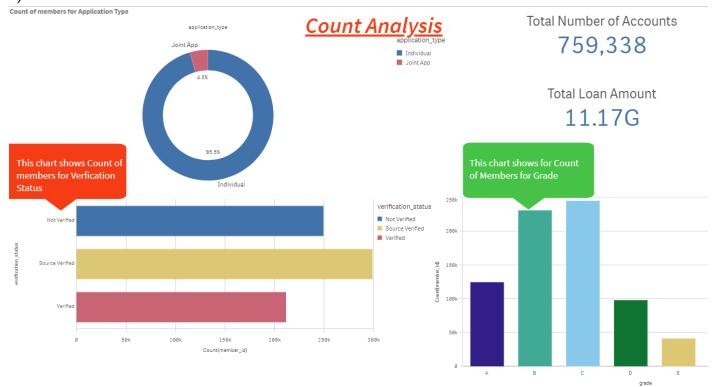
Dashboard 2: Count Analysis

https://hnnwxia0u7qjbbz.sg.qlikcloud.com/sense/app/bbbfab4f-6cc1-4fe5-9856-79c060f23ce2/sheet/ZexYaV/state/analysis



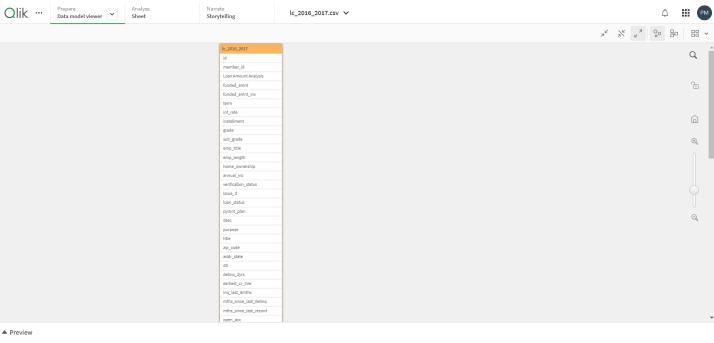
Design Of Story





Data Loaded Amount

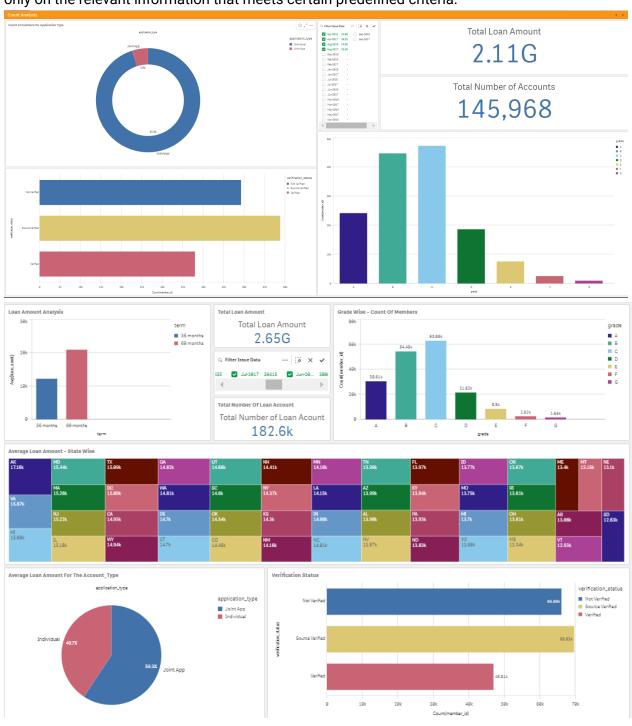
"Amount of Data Loaded" refers to the quantity or volume of data that has been imported, retrieved, or loaded into a system, software application, database, or any other data storage or processing environment. It's a measure of how much data has been successfully processed and made available for analysis, manipulation, or use within the system



revoluteil
total_acc
initial_iss_tebus
ovt_pmop_inv
total_pymot_inv
total_pymot_inv
total_ex_pmop_inv
total_ex_pmot_inv
total_ex_pmot_inv
total_ex_pmot_inv
total_ex_clat
total_ex_clat
total_ex_clat_sec_let_se
reconsises
collection_recovery_fee
last_pymot_d
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last_pymot_d
last_pymot_d
recollegible
last_pymot_d
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Utilization Of Filters

"Utilization of Filters" refers to the application or use of filters within a system, software application, or data processing pipeline to selectively extract, manipulate, or analyze data based on specified criteria or conditions. Filters are used to narrow down the scope of data, focusing only on the relevant information that meets certain predefined criteria.



Conclusion:-

The project successfully addressed the business problem by establishing a robust data analytics framework that offers deep insights into borrower behavior and loan dynamics. The visualizations and analyses conducted provide a strong foundation for improving risk assessment, predicting loan defaults, and dynamically adjusting lending criteria. As a result, the financial institution is better equipped to navigate the complexities of the lending market, reduce risk, and optimize its lending strategy for improved performance and profitability.

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