

**THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

TRICHY 23.

DEPARTMENT OF MATHEMATICS

Team No: 11

NM ID: NM2023TMID02801

**PROJECT TITLE: ANALYSING HOUSE PRICES OF METROPOLITAN
AREAS IN INDIA**

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INTRODUCTION

OVERVIEW

House price prediction in a metropolitan city in India is a valuable solution for potential home buyers, real estate agents, and investors. By leveraging historical sales data, property details, and location-specific information, a predictive model can accurately estimate house prices. The model's scalability, real-time updates, user-friendly interface, and transparency ensure it meets the needs of stakeholders.

PURPOSE

Integration capability, data privacy, and cost-effectiveness are also important considerations. By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.

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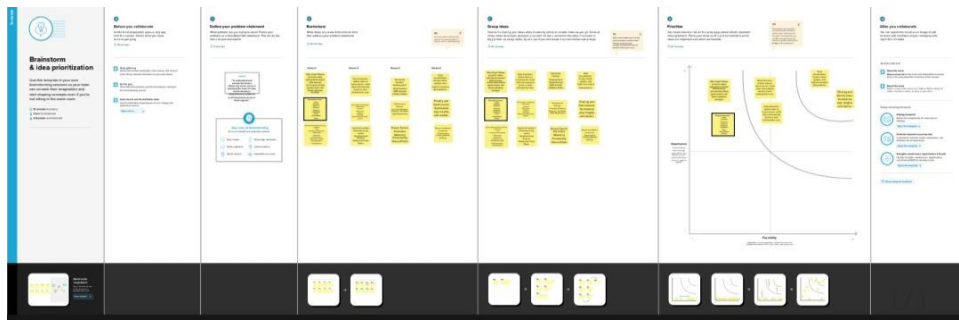
PROBLEM DEFINITION AND DESIGN THINKING

Problem Understanding, also known as Problem Definition or Problem Identification, is the initial and critical phase of any data analysis or problem-solving process. It involves gaining a clear and comprehensive understanding of the problem at hand, its context, scope, and objectives.

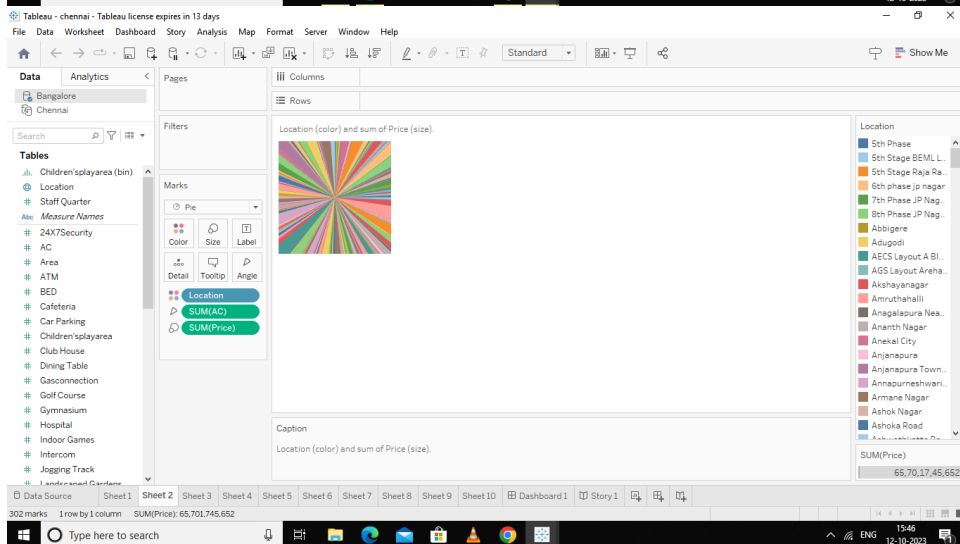
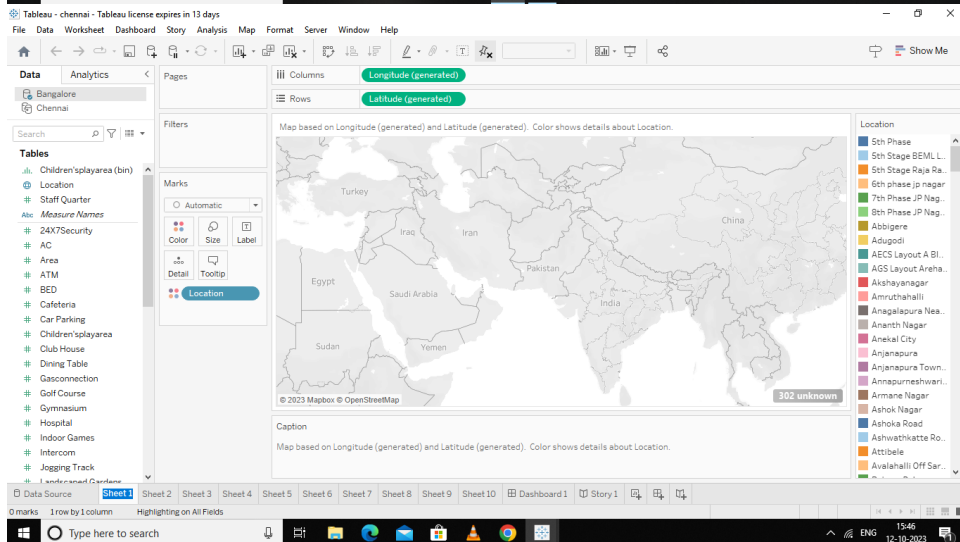
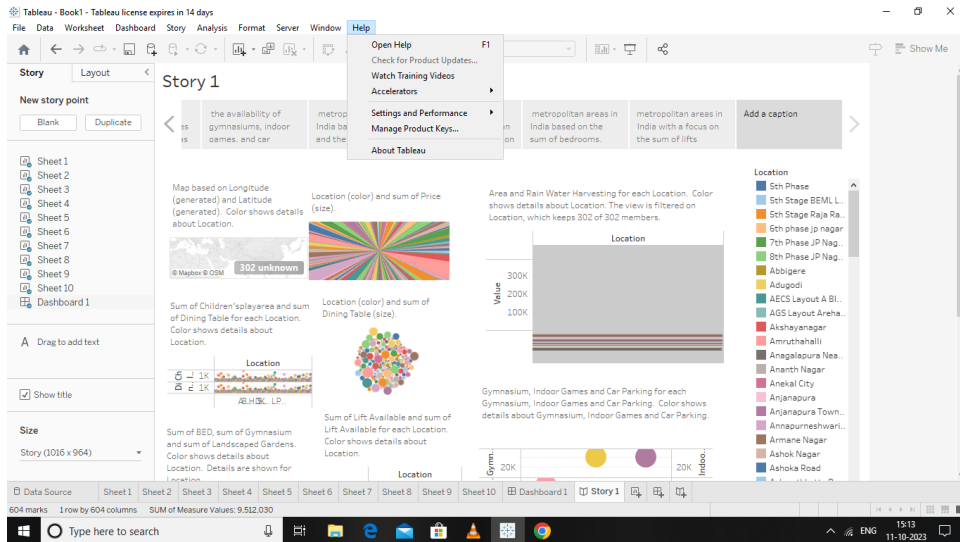
EMPATHY MAP

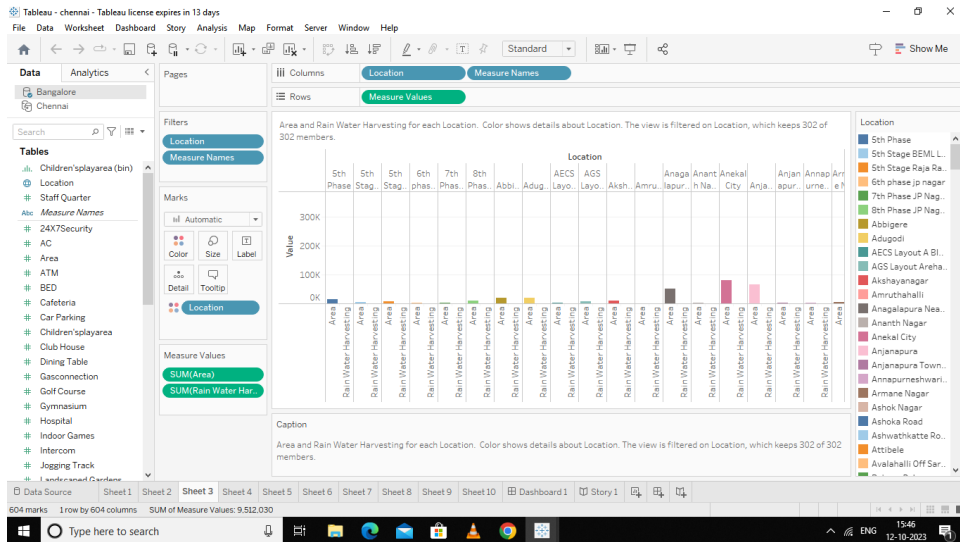


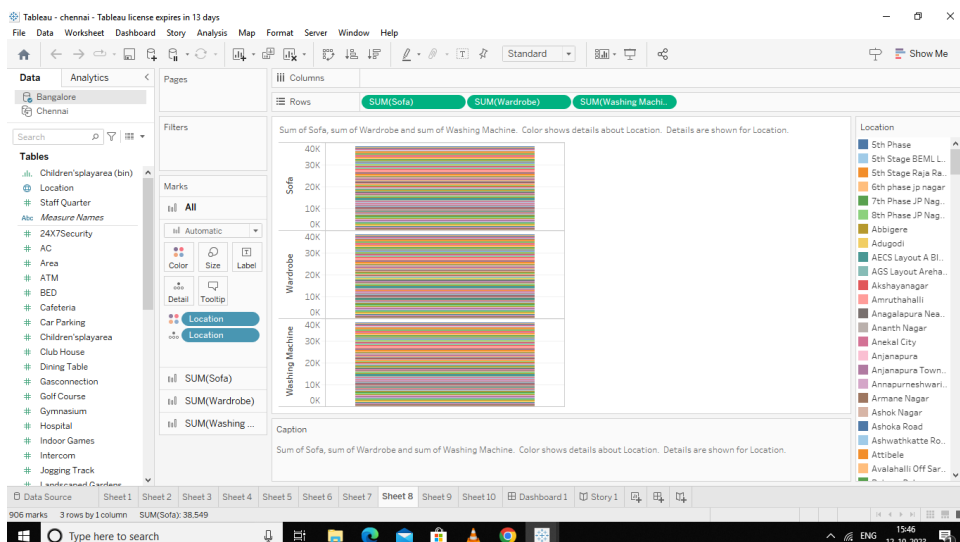
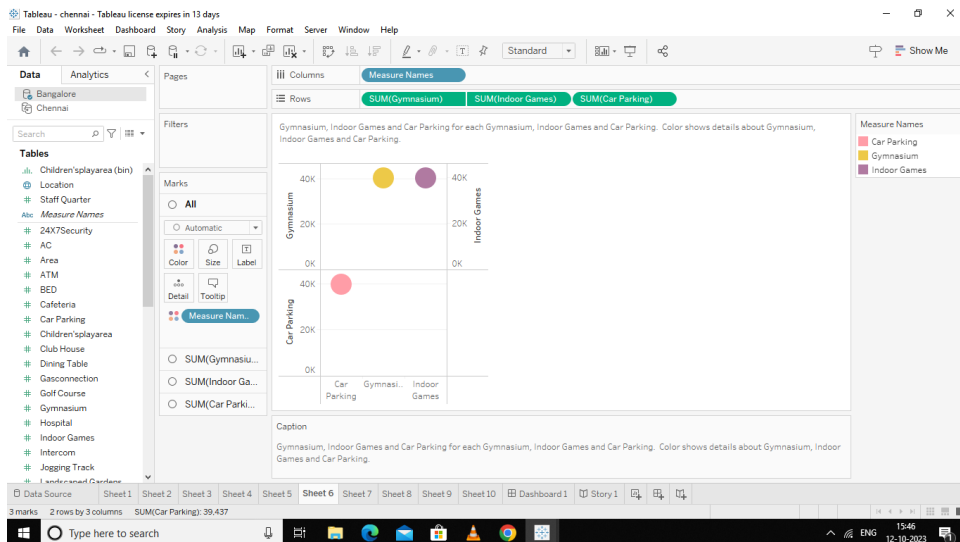
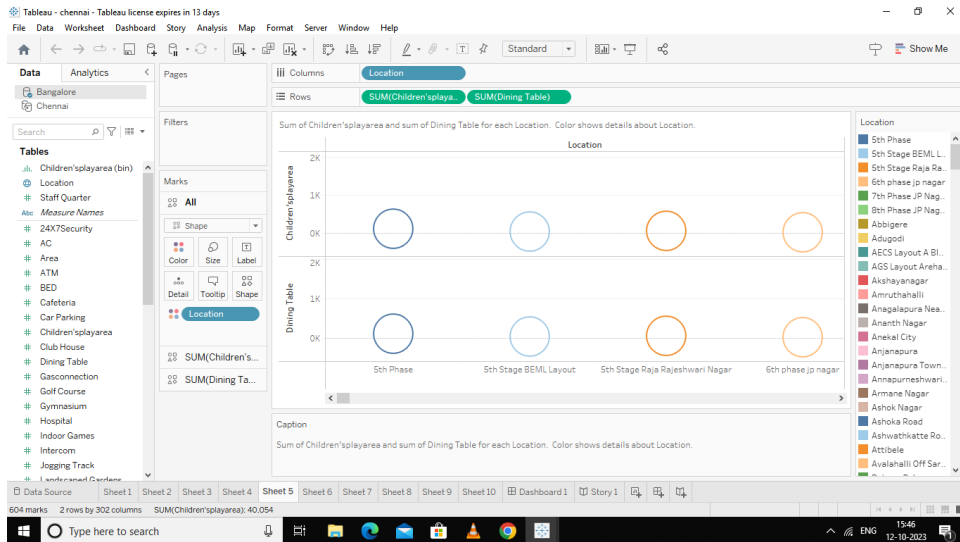
IDEATION AND BRAINSTORMING MAP



RESULT







ADVANTAGES AND DISADVANTAGES

Keeping in view the rapid urbanisation and regional disparities, it is not unexpected that it may lead to some sort of differences in regional houses prices, where housing and real estate are considered as major sources of physical and financial asset. This also leads to the differences in the dynamics of house prices determination. It simply means that there might be shift of house prices in cities from average , in the country, depending upon its economic status. For instance, average house prices in the poorer provinces might be lower than the national average. Similarly, for richer states, the urban house prices, on average might be higher than the national average.

APPLICATIONS

Monday seems to have slightly better flow than the other weekdays, and particularly better than Saturday. As expected, Sunday has the lightest traffic. More drivers can be used on Monday than on any other days.

CONCLUSION

In this report, all the interesting insights that can be derived from a detailed analysis of the dataset are discussed.

FUTURE SCOPE

Urban Planning: With rapid urbanization there is a growing need for effective city planning.

Data-Driven Governance: Governments can be utilize data analysis to make informed decisions, allocate resources efficiently, and address urban challenges like pollution, waste management, and housing.