THANTHAI PERIYAR GOVERNMENT ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

THIRUCHIAPPALLI – 23

DEPARTMENT OF MATHEMATICS

TEAM NO :

2

PROJECT TITLE :

ANALYSING HOUSING PRICES IN METROPOLITAN AREAS INDIA

TEAM MEMBERS :

KALEESHWARI . L – 21RMT31

KAVITHA . A - 21RMT33

MAGESHWARI . R – 21RMT34

TEAM NM ID : NM2023TMID03048

TEAM LEADER NAME :

KAMALA . S -21RMT32

INTRODUCTION :

1.1 OVERVIEW :

Analysing Housing Prices In Metropolitan Areas Of India

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.

1.2 PURPOSE :

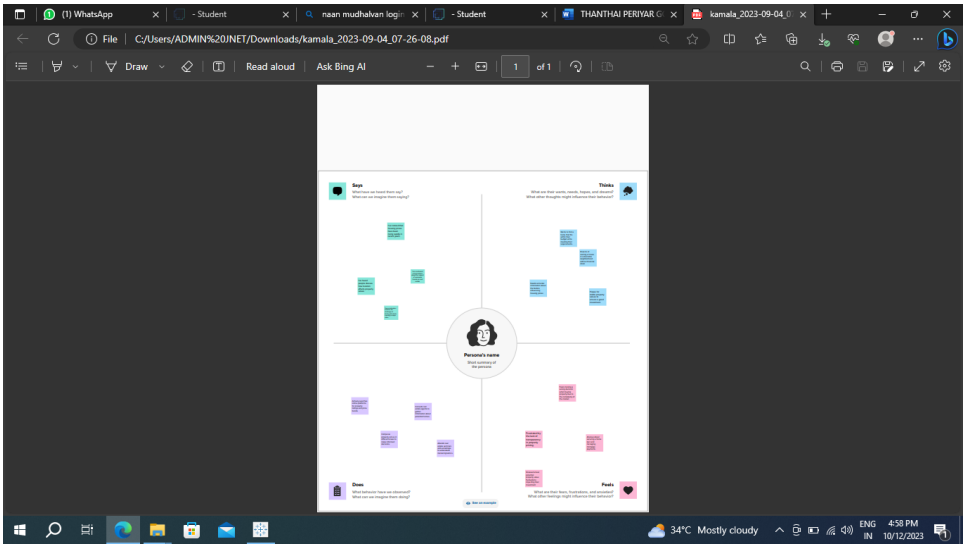
Integration capability, data privacy, and cost-effectiveness are also important considerations. By addressing these requirements, the prediction model provides reliable insights, empowering stakeholders to make informed decisions in the fast-paced real estate market.

2.PROBLEM DEFINITION & DESIGN THINKING

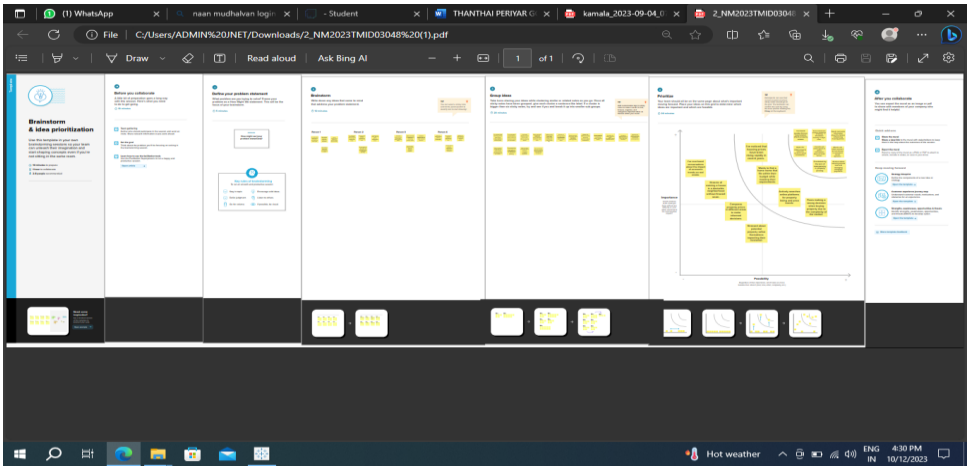
Analysing Housing Prices In Metropolitan Areas Of India

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.

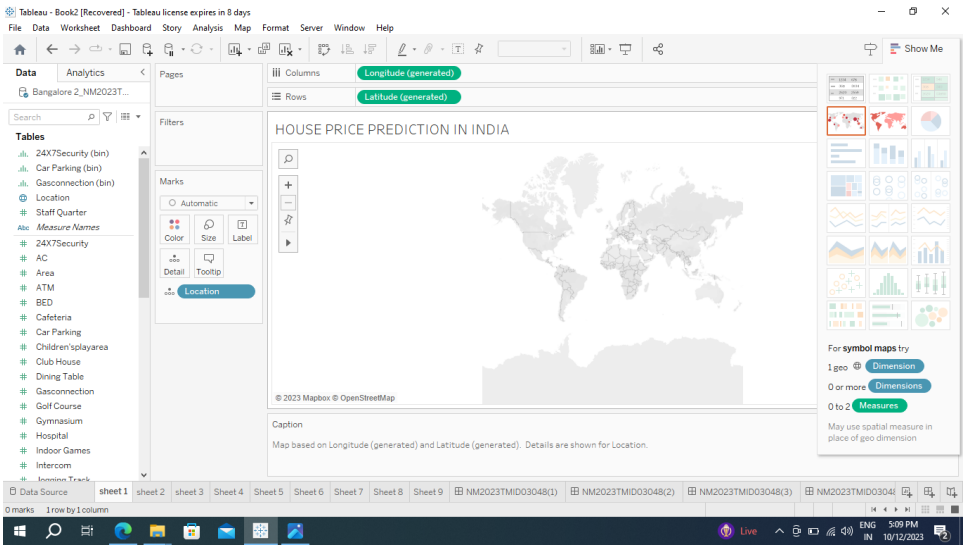
2.1 EMPATHY MAP :



2.2 IDEATION & BRAINSTORMING MAP :


Brainstorm
& Idea prioritization

3.RESULT :


HOUSE PRICE PREDICTION IN INDIA
© 2023 Mapbox © OpenStreetMap
Caption
Map based on Longitude (generated) and Latitude (generated). Details are shown for Location.

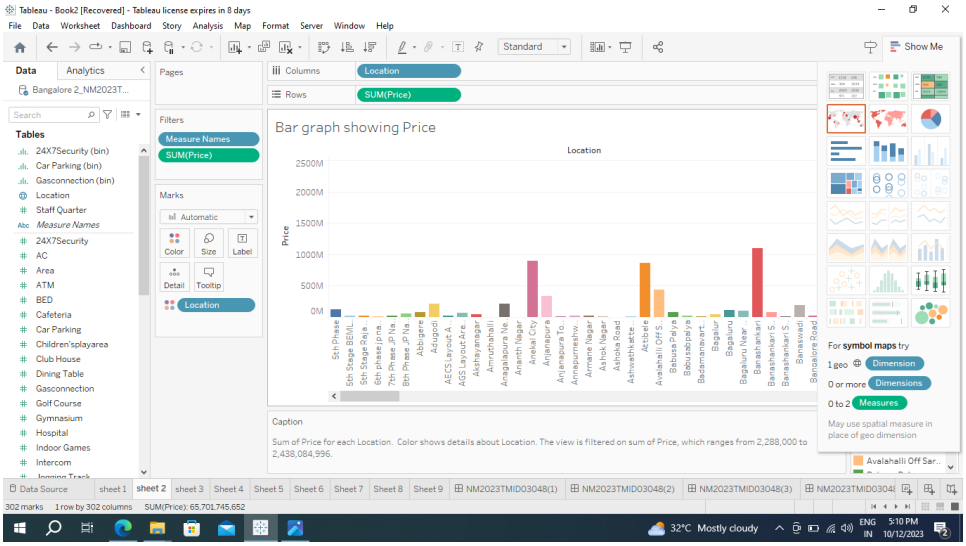
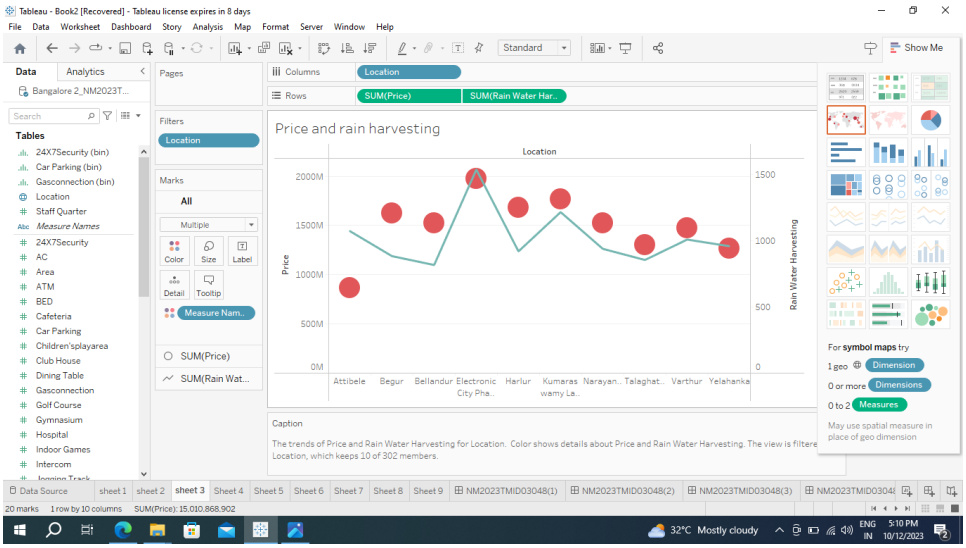


Tableau - Book2 [Recovered] - Tableau license expires in 8 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Data Analytics
Bangalore 2_NM2023T...
Tables
24X7Security (bin)
Car Parking (bin)
Gasconnection (bin)
Location
Staff Quarter
Measure Names
24X7Security
AC
Area
ATM
BED
Cafeteria
Car Parking
Children'splayarea
Club House
Dining Table
Gasconnection
Golf Course
Gymnasium
Hospital
Indoor Games
Intercom
Pages
Filters
Measure Names
SUM(Price)
Marks
Automatic
Color
Size
Label
Detail
Tooltip
Location
Columns
Location
Rows
SUM(Price)
Bar graph showing Price
Location
Price
2500M
2000M
1500M
1000M
500M
0M
Caption
Sum of Price for each Location. Color shows details about Location. The view is filtered on sum of Price, which ranges from 2,288,000 to 2,438,084,996.
Show Me
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
302 marks 1 row by 302 columns SUM(Price): 65,701,745,652
32°C Mostly cloudy
ENG IN 5:10 PM 10/12/2023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Gasconnection
Golf Course
Gymnasium
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Indoor Games
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Location
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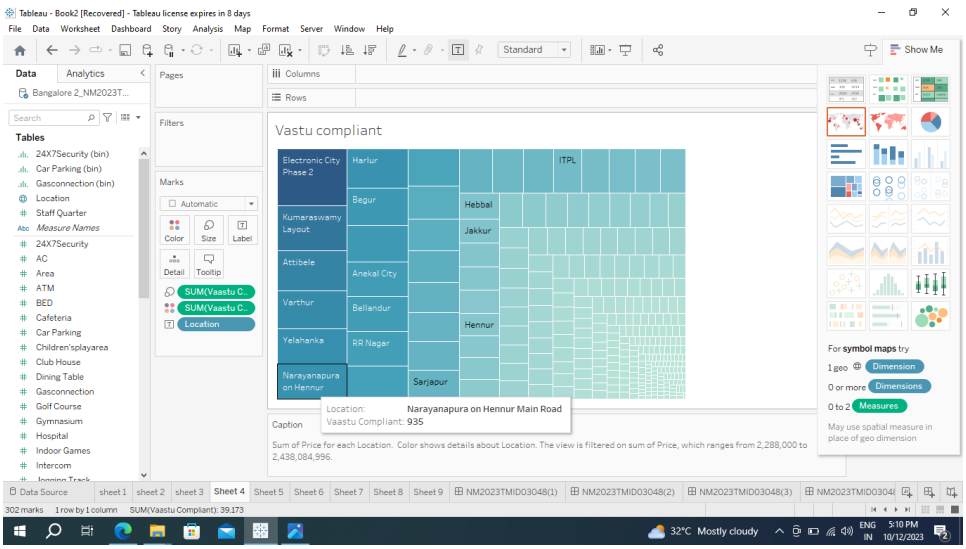
Bellandur
Electronic City Pha..
Harlur
Kumaras wamy La..
Narayan..
Talaghat..
Varthur
Yelahanka
Caption
The trends of Price and Rain Water Harvesting for Location. Color shows details about Price and Rain Water Harvesting. The view is filtere
Location, which keeps 10 of 302 members.
Show Me
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
20 marks 1 row by 10 columns SUM(Price): 15,010,868,902
32°C Mostly cloudy
ENG IN 5:10 PM 10/12/2023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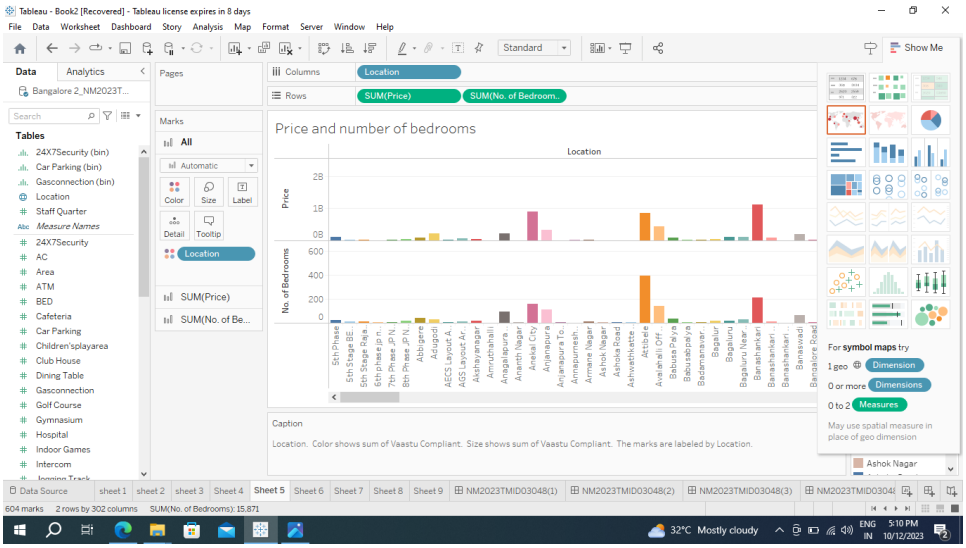
Vastu compliant
Electronic City Phase 2
Harlur
ITPL
Begur
Hebbal
Kumaraswamy Layout
Jakkur
Attibele
Anekal City
Varthur
Bellandur
Hennur
Yelahanka
RR Nagar
Narayanapura on Hennur
Sarjapur
Location: Narayanapura on Hennur Main Road
Vaastu Compliant: 935
Caption
Sum of Price for each Location. Color shows details about Location. The view is filtered on sum of Price, which ranges from 2,288,000 to 2,438,084,996.
Show Me
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Data Source sheet 1 sheet 2 sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 NM2023TMID03048(1) NM2023TMID03048(2) NM2023TMID03048(3)
302 marks 1 row by 1 column SUM(Vaastu Compliant): 39,173
32°C Mostly cloudy
ENG IN 5:10 PM 10/12/2023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7th Phase JP N...
8th Phase JP N...
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Akshayanagar
Amruthahalli
Anagalapura ...
Ananth Nagar
Anekal City
Anjanapura
Anjanapura To...
Annapurnesh...
Armane Nagar
Ashok Nagar
Ashoka Road
Ashwathkatte
Attibele
Avalahalli Off...
Babusa Palya
Babusabpalya
Bedaranayar...
Bagalur
Bagaluru
Bagaluru Near
Banashankari
Banashankari ...
Banashankari ...
Banaswadi
Bannalore Road
Caption
Location. Color shows sum of Vaastu Compliant. Size shows sum of Vaastu Compliant. The marks are labeled by Location.
Show Me
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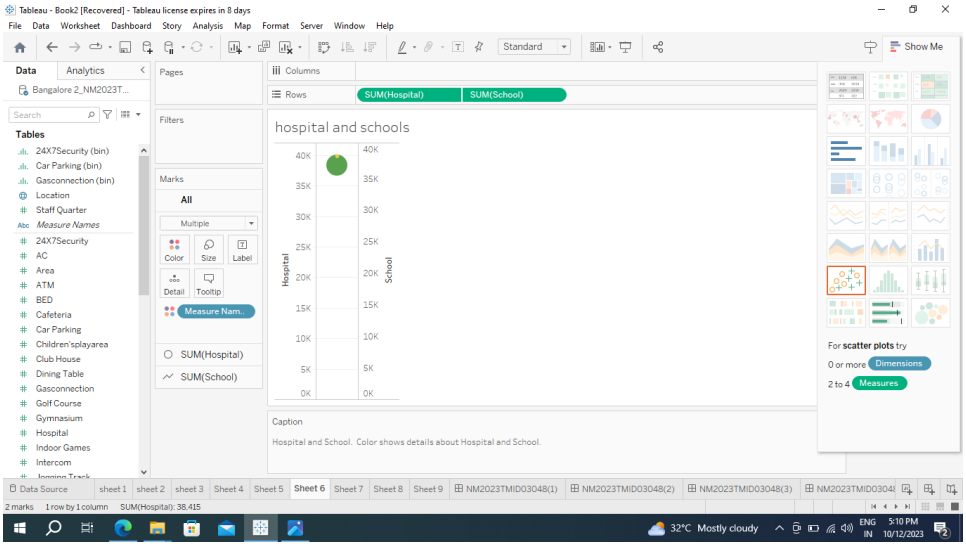
0 to 2 Measures
May use spatial measure in place of geo dimension
Ashok Nagar
Data Source sheet 1 sheet 2 sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Sheet 9 NM2023TMID03048(1) NM2023TMID03048(2) NM2023TMID03048(3)
604 marks 2 rows by 302 columns SUM(No. of Bedrooms): 15,871
32°C Mostly cloudy
ENG IN 5:10 PM 10/12/2023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Golf Course
Gymnasium
Hospital
Indoor Games
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15K
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For scatter plots try
0 or more Dimensions
2 to 4 Measures
Caption
Hospital and School. Color shows details about Hospital and School.
Data Source
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
2 marks
1 row by 1 column
SUM(Hospital): 38,415
32°C Mostly cloudy
ENG
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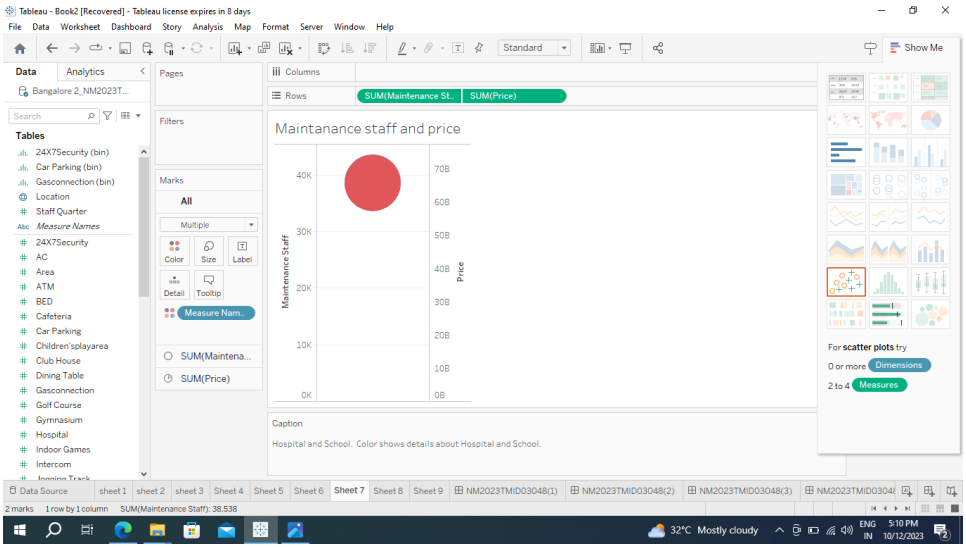
10/12/2023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20B
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For scatter plots try
0 or more Dimensions
2 to 4 Measures
Caption
Hospital and School. Color shows details about Hospital and School.
Data Source
sheet 1
sheet 2
sheet 3
Sheet 4
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Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
2 marks
1 row by 1 column
SUM(Maintenance Staff): 38,538
32°C Mostly cloudy
ENG
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5:10 PM
10/12/2023

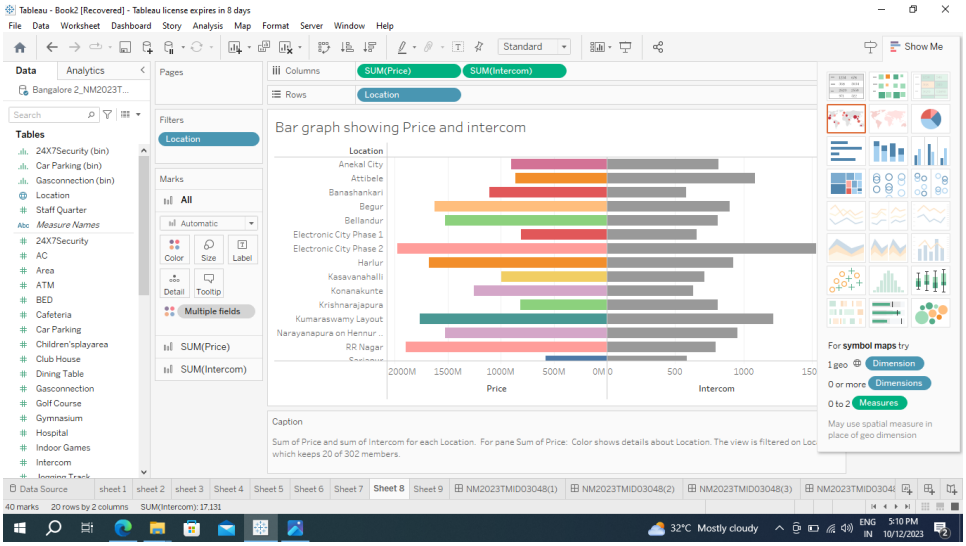
Tableau - Book2 [Recovered] - Tableau license expires in 8 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
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Dining Table
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Hospital
Indoor Games
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Size
Label
Detail
Tooltip
Multiple fields
SUM(Price)
SUM(Intercom)
Columns
SUM(Price)
SUM(Intercom)
Rows
Location
Bar graph showing Price and intercom
Location
Anekal City
Attibele
Banashankari
Begur
Bellandur
Electronic City Phase 1
Electronic City Phase 2
Harlur
Kasavanahalli
Konanakunte
Krishnarajapura
Kumaraswamy Layout
Narayanapura on Hennur ...
RR Nagar
2000M
1500M
1000M
500M
0M
0
500
1000
Price
Intercom
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Caption
Sum of Price and sum of Intercom for each Location. For pane Sum of Price: Color shows details about Location. The view is filtered on Loc
which keeps 20 of 302 members.
Data Source
sheet 1
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Sheet 7
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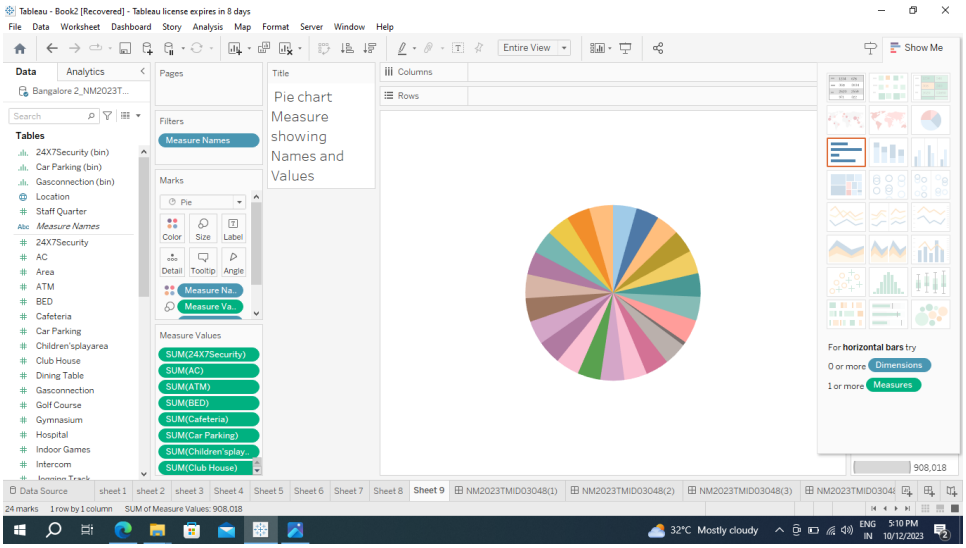
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
40 marks
20 rows by 2 columns
SUM(Intercom): 17,131
32°C Mostly cloudy
ENG
IN
5:10 PM
10/12/2023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Dining Table
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SUM(Cafeteria)
SUM(Car Parking)
SUM(Children'splay..
SUM(Club House)
Title
Pie chart Measure showing Names and Values
Columns
Rows
For horizontal bars try
0 or more Dimensions
1 or more Measures
908,018
Data Source
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
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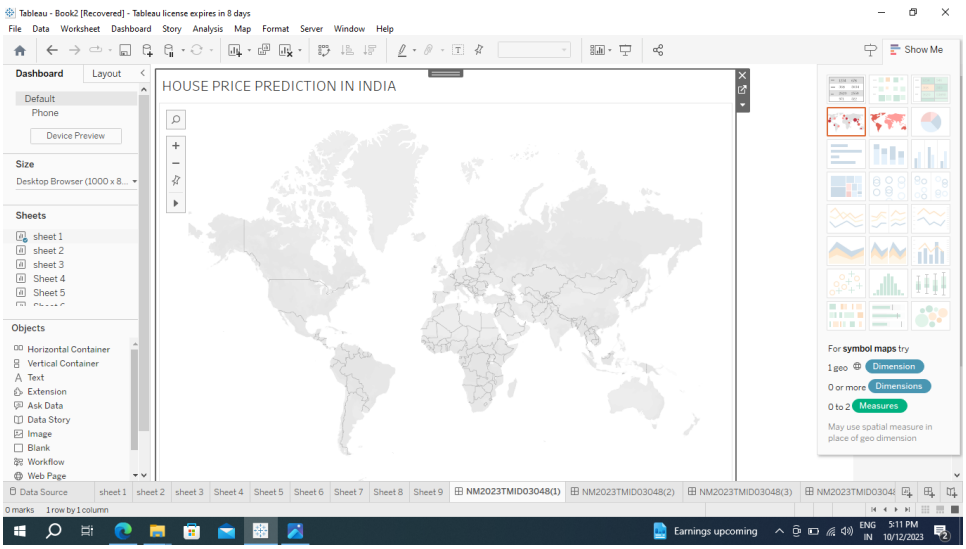
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
24 marks
1 row by 1 column
SUM of Measure Values: 908,018
32°C Mostly cloudy
ENG
IN
5:10 PM
10/12/2023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Desktop Browser (1000 x 8...
Sheets
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Objects
Horizontal Container
Vertical Container
Text
Extension
Ask Data
Data Story
Image
Blank
Workflow
Web Page
HOUSE PRICE PREDICTION IN INDIA
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Data Source
sheet 1
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NM2023TMID03048(1)
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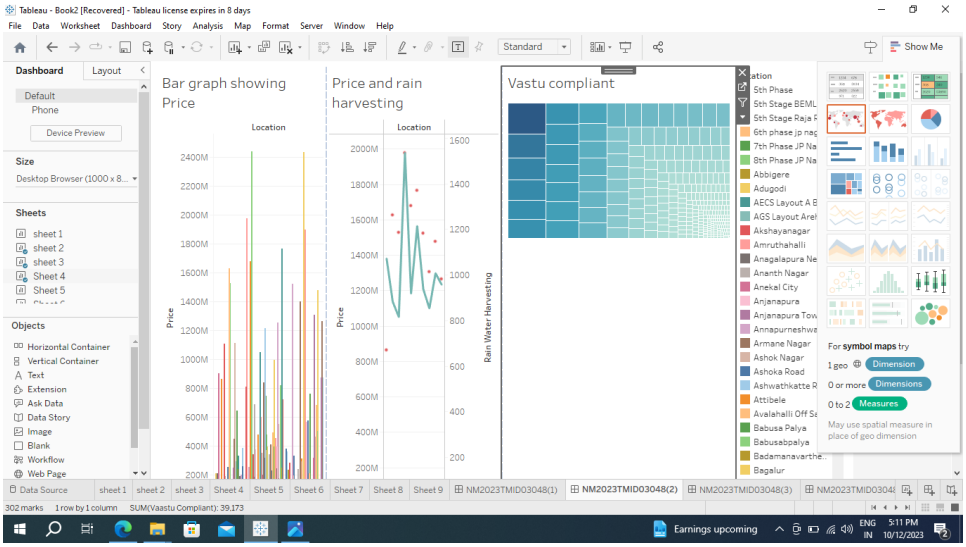
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Objects
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Vertical Container
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Ask Data
Data Story
Image
Blank
Workflow
Web Page
Bar graph showing Price
Location
Price
Price and rain harvesting
Location
Price
Rain Water Harvesting
Vastu compliant
5th Phase
6th phase jp nag
7th Phase JP Na
8th Phase JP Na
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Adugodi
Akshayanagar
Amruthahalli
Ananth Nagar
Anekal City
Anjanapura
Ashok Nagar
Ashoka Road
Attibele
Babusa Palya
Babusabpalya
Bagalur
For symbol maps try
1 geo Dimension
0 or more Dimensions
0 to 2 Measures
May use spatial measure in place of geo dimension
Data Source
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
302 marks
1 row by 1 column
SUM(Vaastu Compliant): 39,173
Earnings upcoming
ENG
IN
5:11 PM
10/12/2023

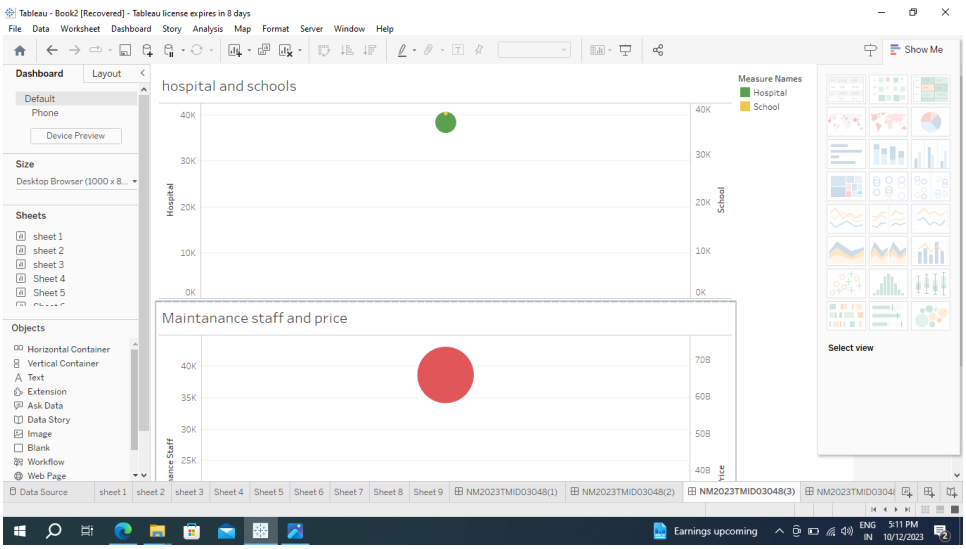
Tableau - Book2 [Recovered] - Tableau license expires in 8 days
hospital and schools
Measure Names
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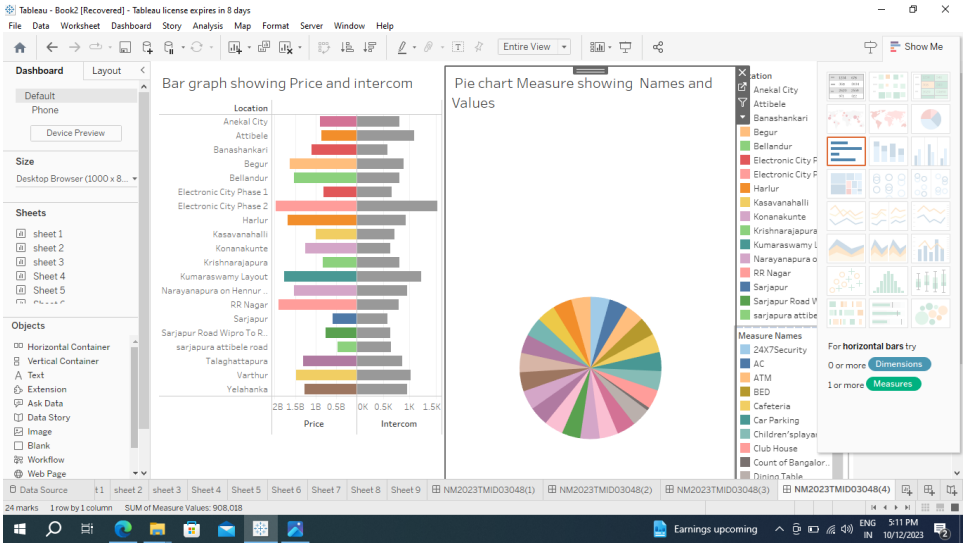
School
Maintanance staff and price
Select view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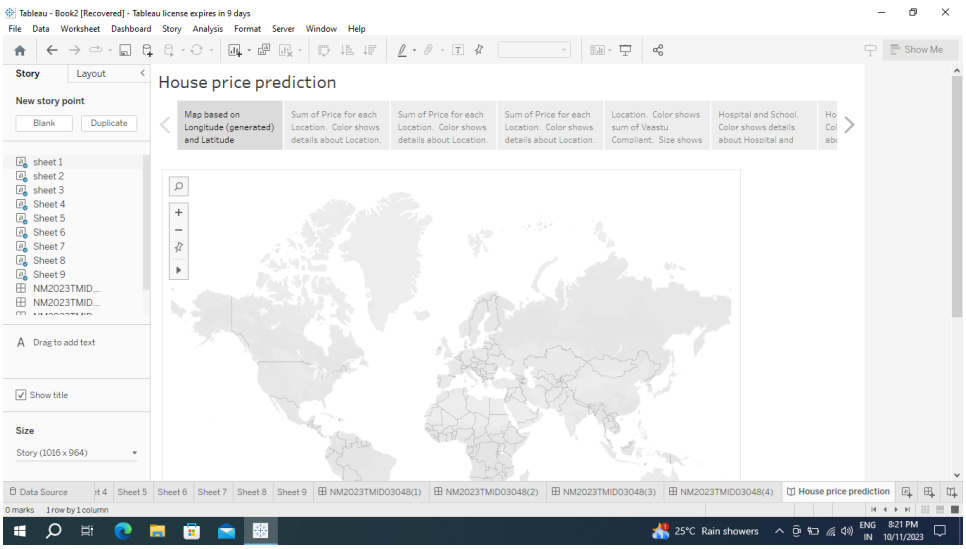
Bar graph showing Price and intercom
Pie chart Measure showing Names and Values
Price
Intercom
For horizontal bars try
Measures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File Data Worksheet Dashboard Story Analysis Format Server Window Help
Story
Layout
New story point
Blank
Duplicate
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
Drag to add text
Show title
Size
Story (1016 x 964)
House price prediction
Map based on Longitude (generated) and Latitude
Sum of Price for each Location. Color shows details about Location.
Location. Color shows sum of Vaastu Compliant. Size shows
Hospital and School. Color shows details about Hospital and
Show Me
Data Source
House price prediction
0 marks
1 row by 1 column
25°C Rain showers
ENG IN
8:21 PM
10/11/2023

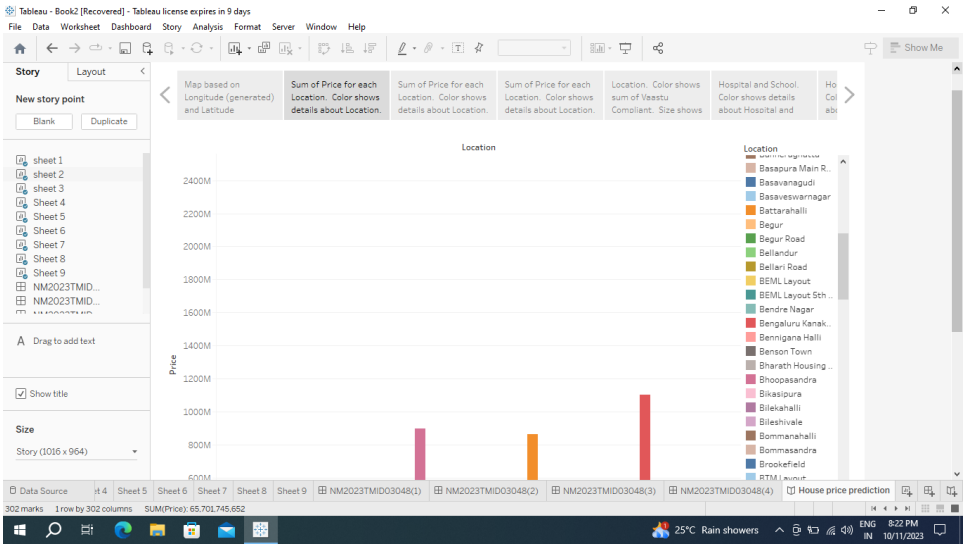
Tableau - Book2 [Recovered] - Tableau license expires in 9 days
File Data Worksheet Dashboard Story Analysis Format Server Window Help
Story
Layout
New story point
Blank
Duplicate
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
Drag to add text
Show title
Size
Story (1016 x 964)
Map based on Longitude (generated) and Latitude
Sum of Price for each Location. Color shows details about Location.
Location. Color shows sum of Vaastu Compliant. Size shows
Hospital and School. Color shows details about Hospital and
Show Me
Location
Price
2400M
2200M
2000M
1800M
1600M
1400M
1200M
1000M
800M
Basapura Main R..
Basavanagudi
Basaveswarnagar
Battarahalli
Begur
Begur Road
Bellandur
Bellari Road
BEML Layout
BEML Layout 5th ..
Bendre Nagar
Bengaluru Kanak..
Bennigana Halli
Benson Town
Bharath Housing ..
Bhoopasandra
Bikasipura
Bilekahalli
Bileshivale
Bommanahalli
Bommasandra
Brookefield
Data Source
House price prediction
302 marks
1 row by 302 columns
SUM(Price): 65,701,745,652
25°C Rain showers
ENG IN
8:22 PM
10/11/2023

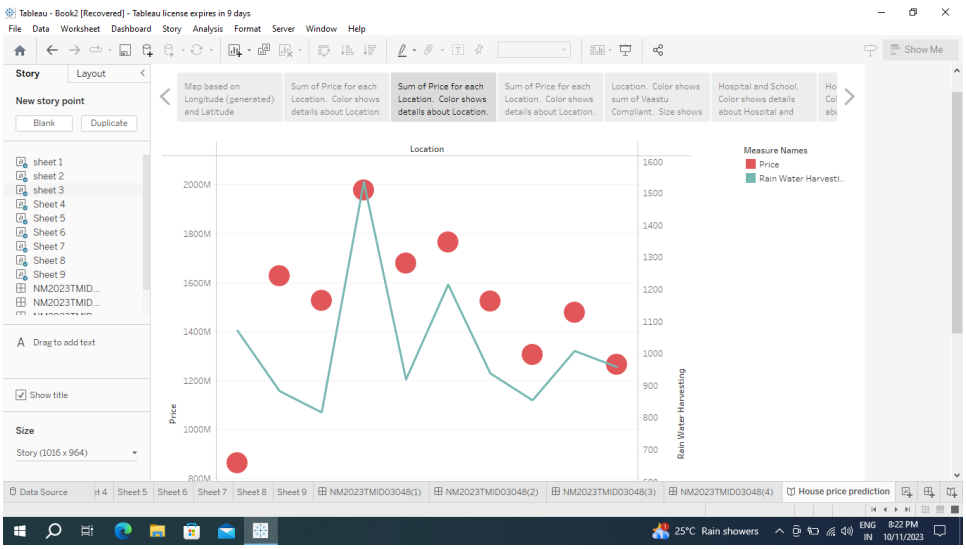
Tableau - Book2 [Recovered] - Tableau license expires in 9 days
File Data Worksheet Dashboard Story Analysis Format Server Window Help
Show Me
Story
Layout
New story point
Blank
Duplicate
sheet 1
sheet 2
sheet 3
Sheet 4
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID...
NM2023TMID...
Drag to add text
Show title
Size
Story (1016 x 964)
Map based on Longitude (generated) and Latitude
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Price
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Data Source
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
NM2023TMID03048(4)
House price prediction
25°C Rain showers
ENG IN
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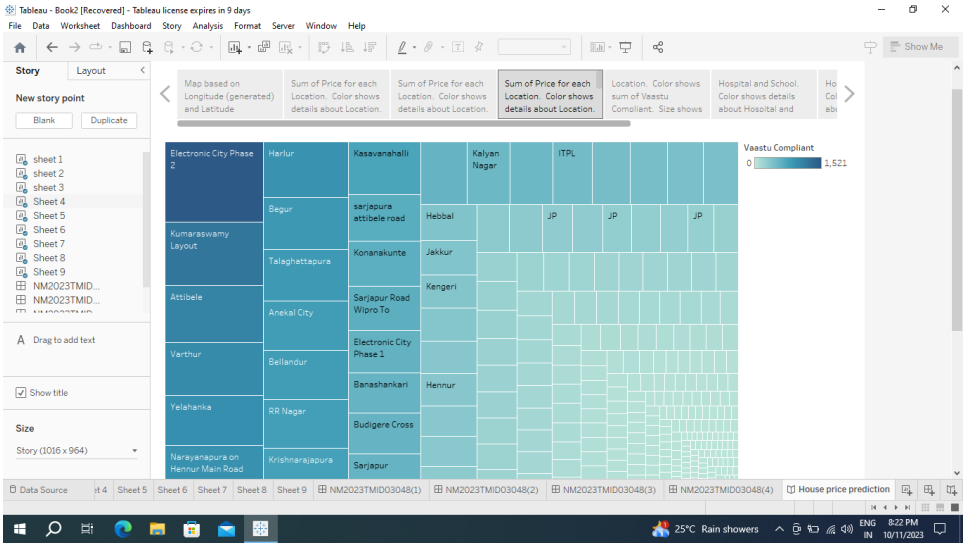
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Story (1016 x 964)
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Sum of Price for each Location. Color shows details about Location.
Location. Color shows sum of Vaastu Compliant. Size shows
Hospital and School. Color shows details about Hospital and
Electronic City Phase 2
Kumaraswamy Layout
Attibele
Varthur
Yelahanka
Narayanapura on Hennur Main Road
Harlur
Begur
Talaghattapura
Anekal City
Bellandur
RR Nagar
Krishnarajapura
Kasavanahalli
sarjapura attibele road
Konanakunte
Sarjapur Road Wipro To
Electronic City Phase 1
Banashankari
Budigere Cross
Sarjapur
Kalyan Nagar
ITPL
Hebbal
JP
JP
JP
Jakkur
Kengeri
Hennur
Vaastu Compliant
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Data Source
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
NM2023TMID03048(4)
House price prediction
25°C Rain showers
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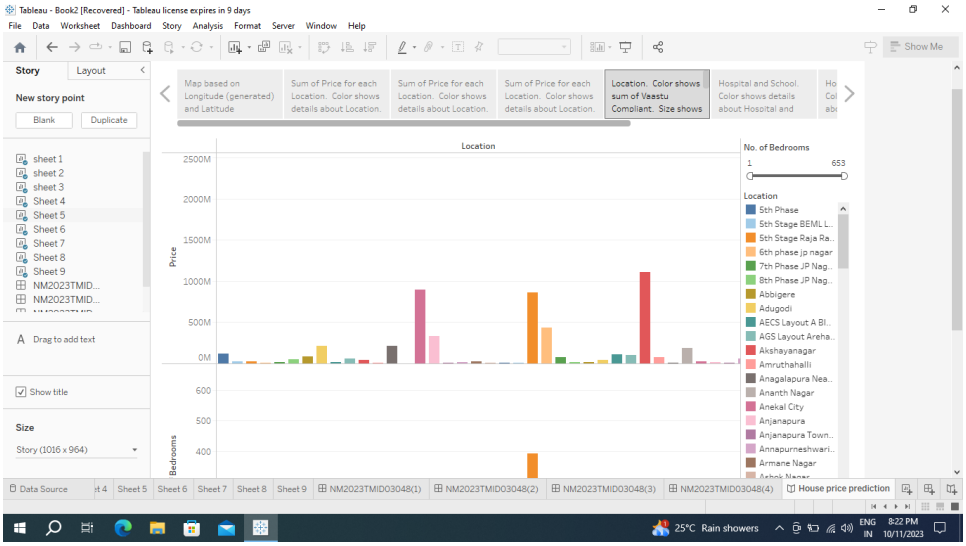
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Drag to add text
Show title
Size
Story (1016 x 964)
Map based on Longitude (generated) and Latitude
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Sum of Price for each Location. Color shows details about Location.
Sum of Price for each Location. Color shows details about Location.
Location. Color shows sum of Vaastu Compliant. Size shows
Hospital and School. Color shows details about Hospital and
Location
2500M
2000M
1500M
1000M
500M
0M
Price
600
500
400
Bedrooms
No. of Bedrooms
1
653
Location
5th Phase
5th Stage BEML L..
5th Stage Raja Ra..
6th phase jp nagar
7th Phase JP Nag..
8th Phase JP Nag..
Abbigere
Adugodi
AECS Layout A Bl..
AGS Layout Areha..
Akshayanagar
Amruthahalli
Anagalapura Nea..
Ananth Nagar
Anekal City
Anjanapura
Anjanapura Town..
Annapurneshwari..
Armane Nagar
Data Source
Sheet 5
Sheet 6
Sheet 7
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
NM2023TMID03048(4)
House price prediction
25°C Rain showers
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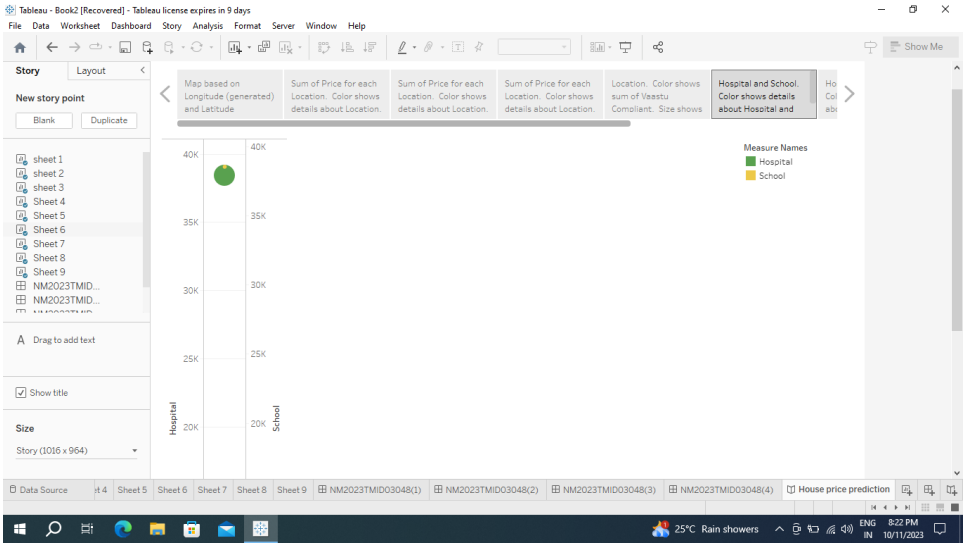
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School
Measure Names
Hospital
School
Data Source
Sheet 5
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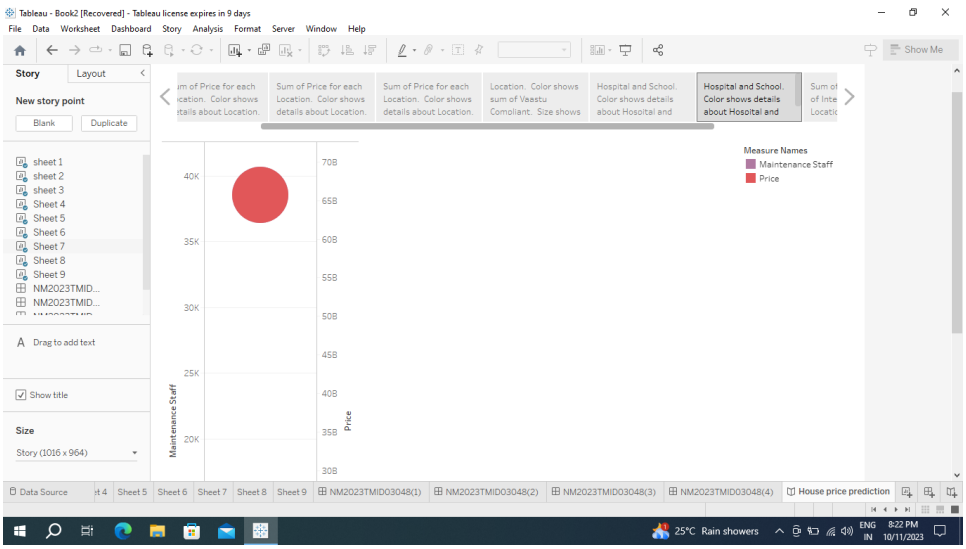
Sheet 8
Sheet 9
NM2023TMID03048(1)
NM2023TMID03048(2)
NM2023TMID03048(3)
NM2023TMID03048(4)
House price prediction
25°C Rain showers
ENG IN
8:22 PM
10/11/2023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Hospital and School. Color shows details about Hosoital and
Measure Names
Maintenance Staff
Price
Maintenance Staff
Price
Data Source
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House price prediction
25°C Rain showers
ENG IN
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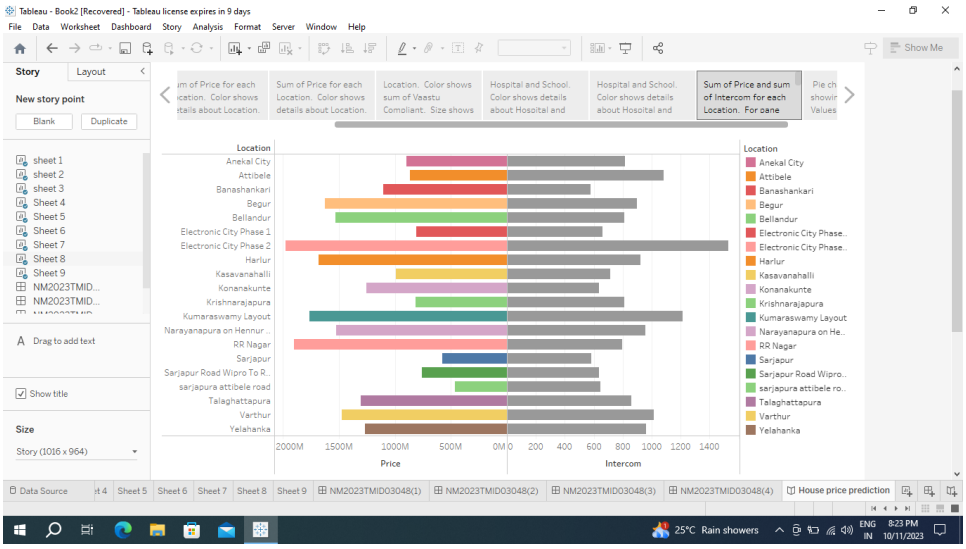
10/11/2023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File Data Worksheet Dashboard Story Analysis Format Server Window Help
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Layout
New story point
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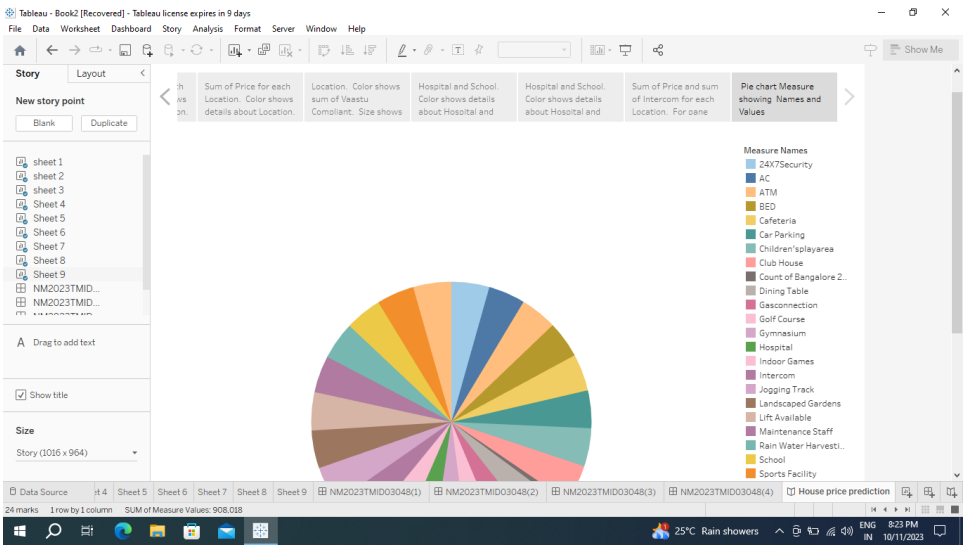
Duplicate
Drag to add text
Show title
Size
Story (1016 x 964)
Sum of Price and sum of Intercom for each Location. For pane
Location
Anekal City
Attibele
Banashankari
Begur
Bellandur
Electronic City Phase 1
Electronic City Phase 2
Harlur
Kasavanahalli
Konanakunte
Krishnarajapura
Kumaraswamy Layout
Narayanapura on Hennur ...
RR Nagar
Sarjapur
Sarjapur Road Wipro To R...
sarjapura attibele road
Talaghattapura
Varthur
Yelahanka
2000M 1500M 1000M 500M 0M
Price
0 200 400 600 800 1000 1200 1400
Intercom
Data Source
House price prediction
25°C Rain showers
ENG IN
8:23 PM
10/11/2023



4 . 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 house 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 price 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.

5 .Applications

Traditional development theories believed that agriculture, industrialisation, urbanisation, are significant ingredients of growth, and, ultimately important prerequisites for achieving development. Within the economy itself, the status of growth of a state can be judged through its performance in agricultural and industrial production, performance of service sector and urbanisation, and their impact through their contribution in income and employment generation at the national level. Thus, house price behaviour may also reflect some short of developmental status of the households of a country.

6 .Conclusion

While housing prices are not part of the consumer price inflation basket, their effect is captured through construction and raw material prices, and there will not be a slowdown any time soon.

7 . Future Scope

The housing markets in the different areas operate as segmented independent local markets. Therefore, house prices in one location in India cannot impose a competitive constraint on house prices in other location, and as such a home owner can freely set the price of his house