

Melamchi Phatkeshwor Indrawati Stone Pvt. Ltd.

Melamchi Municipality-13, Sindhupalchowk

Introduction

Melamchi Phatkeshwor Indrawati Stone is a private company that sells and delivers stones to the major cities in Nepal which are Kathmandu, Pokhara, Birantnagar, Lalitpur and Birgunj. The company sells 5 types of stones which are Slate, Basalt, Bricks, Granite and Sandstone.

The data provided accounts for 3 years of the business running which are 2018, 2019, and beginning of 2020.

Our business is mainly focused on the sales growth and the gross profit looking forward to decreasing costs.

Our Key Performance Indicators(KPIs) are the Sales growth/Sales Value, Gross Profit % margin as well as Cost of goods sold.

Problems faced during Analysis and Design and Solutions Analysis and of Data and Steps taken to create calculated fields

- 1. Created calculated formulas and columns for Sale Value, Gross Profit and Gross Profit % Margin by using DAX formulas. Calculations are as follows
- a) Sales Value = Units Sold * Sale Price

```
X V 1 Sale Value2018 = 'Stone_Sales_2018'[Units Sold] * 'Stone_Sales_2018'[Sale Price]
```

b) Gross Profit = Sale Price - COGS - Discounts

```
/ I Gross Profit = 'Stone_Sales_2018'[Sale Price] - 'Stone_Sales_2018'[COGS]
```

c) Gross Profit % Margin = Gross Profit / Sale Price * 100

```
X V 1 Gross Profit %_2018 = 'Stone_Sales_2018'[Gross Profit] / 'Stone_Sales_2018'[Sale Value2018] * 100
```

1. Normalization of database

Failure to normalize database so there was repetition so 3 Queries for the years were used

The solution was to design custom dashboard for each year so it made the use of the slicer obsolete

2. Adding the customer information

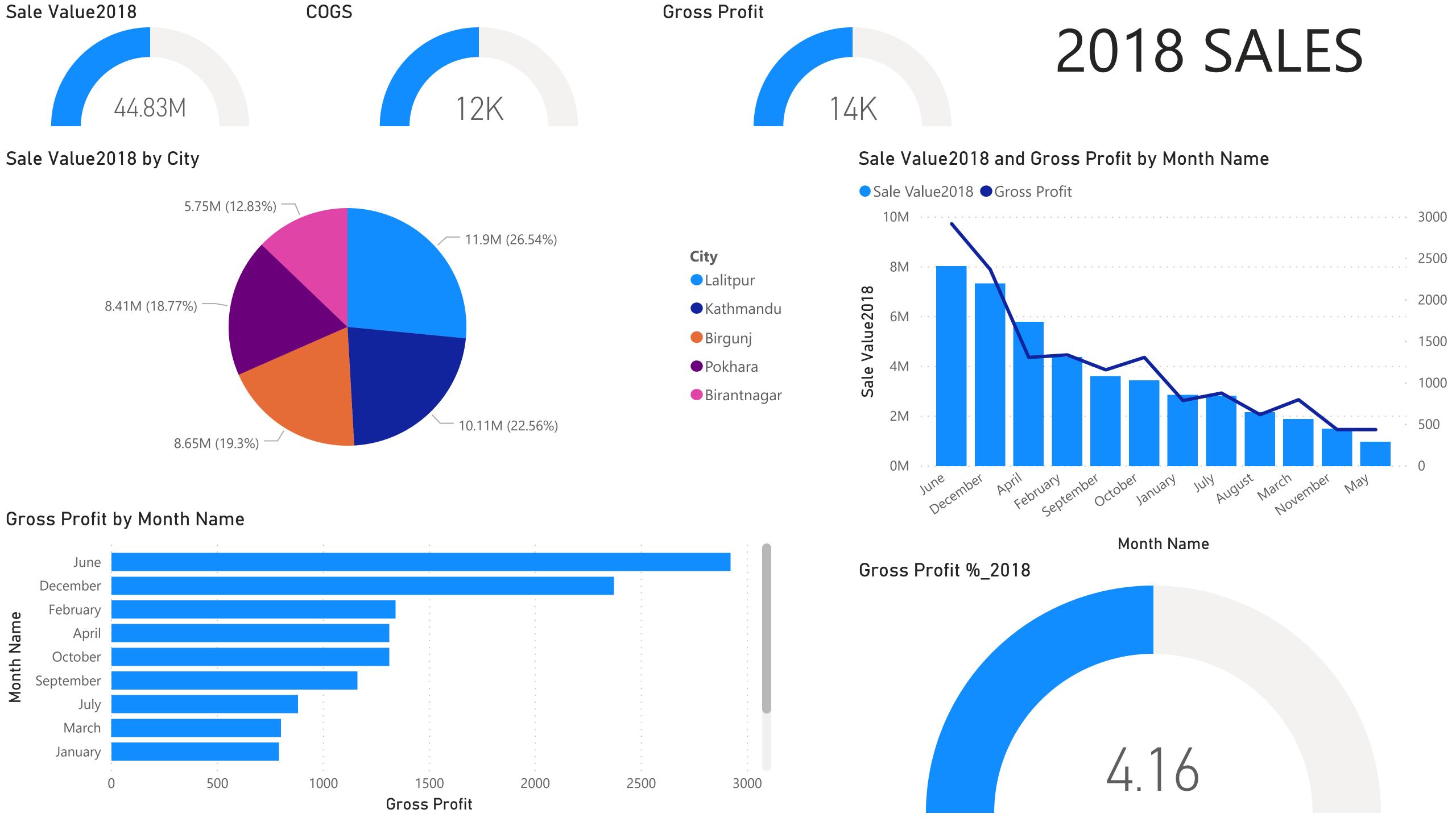
Problems were faced in finding the customer names as to the data we had so we mostl had to rely on city for our understanding of where products sell the most

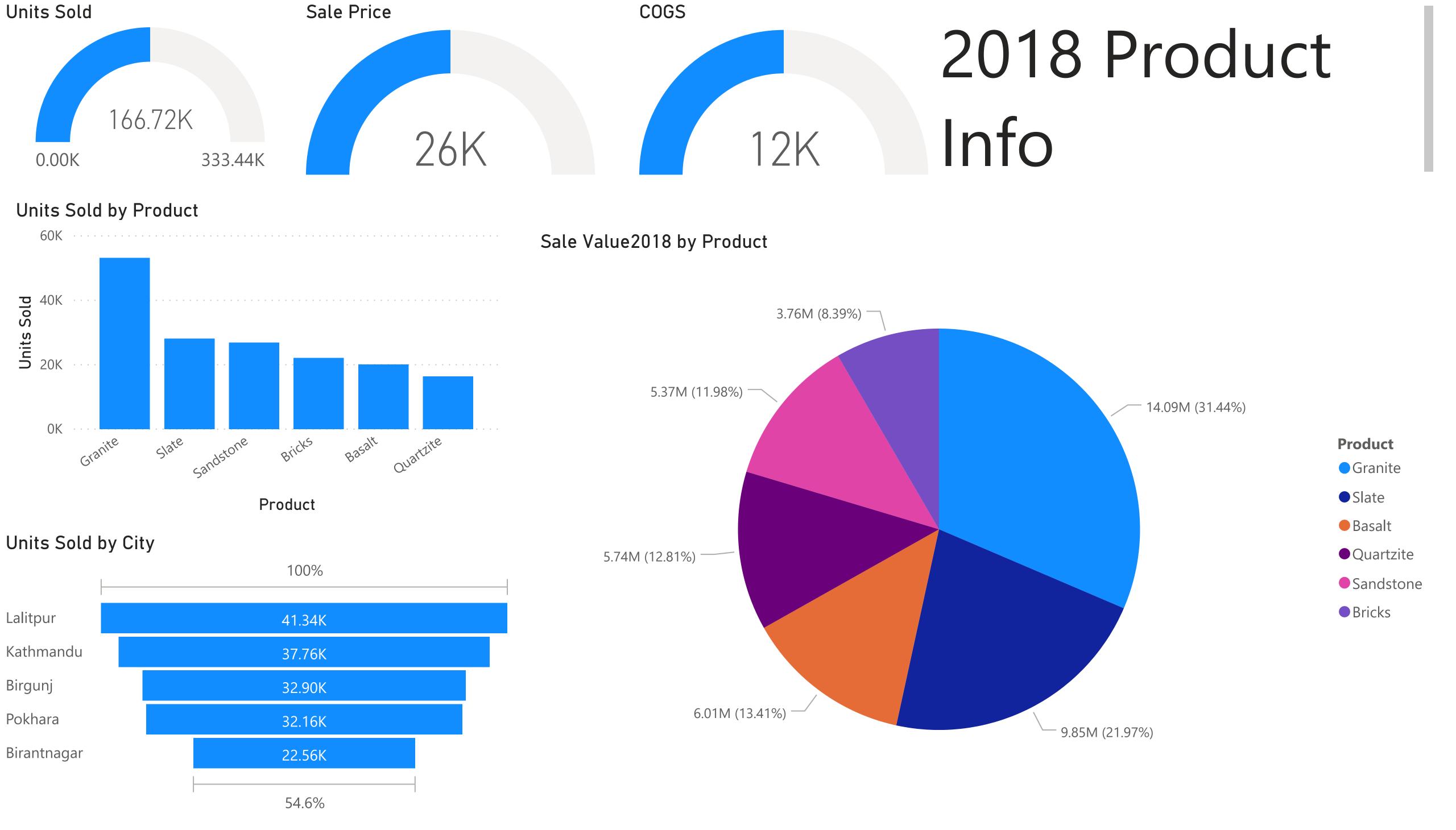
The solution was to understand the cities we sell to

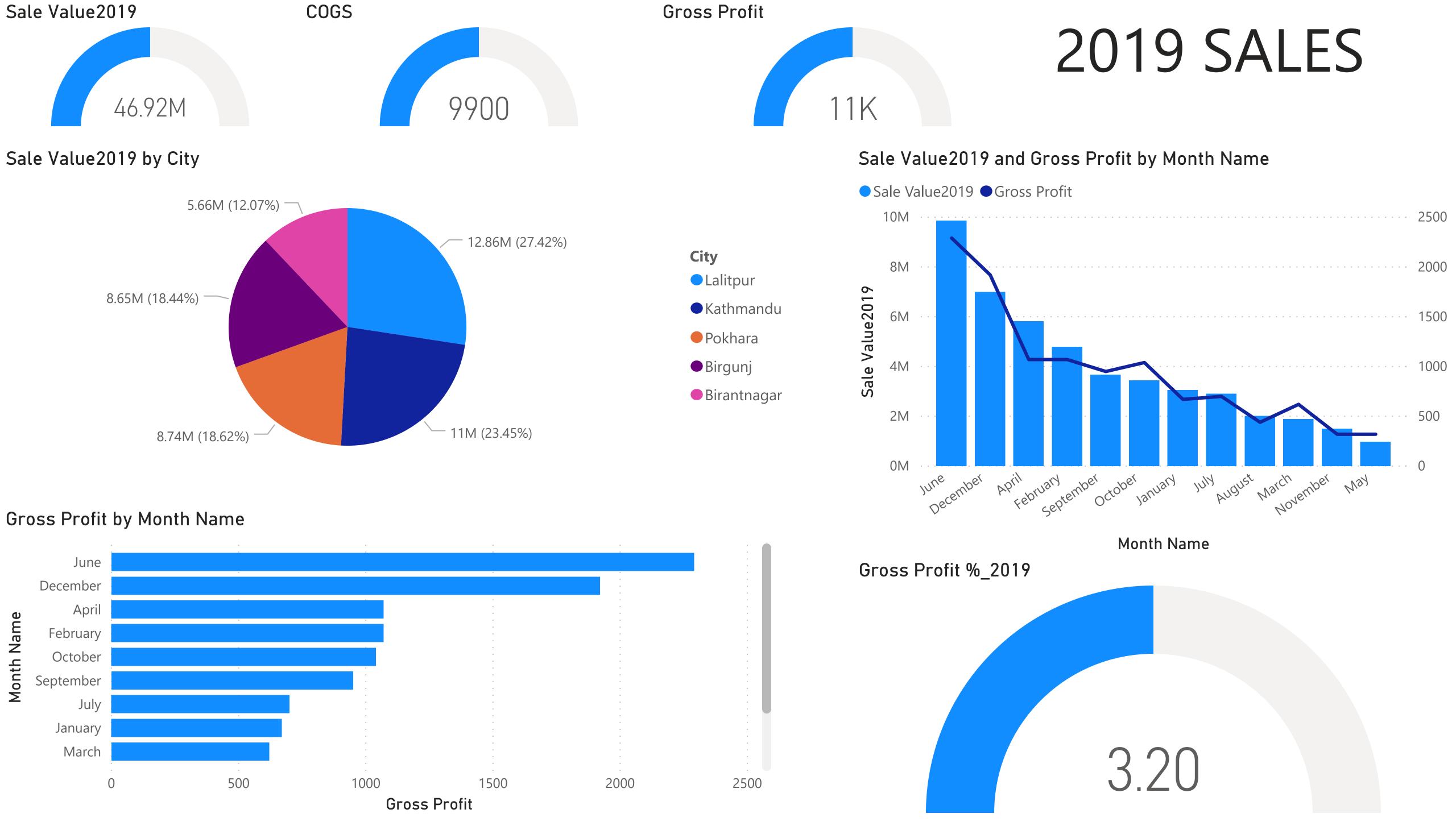
3. Only a few KPIs to show the manager as the business is growing

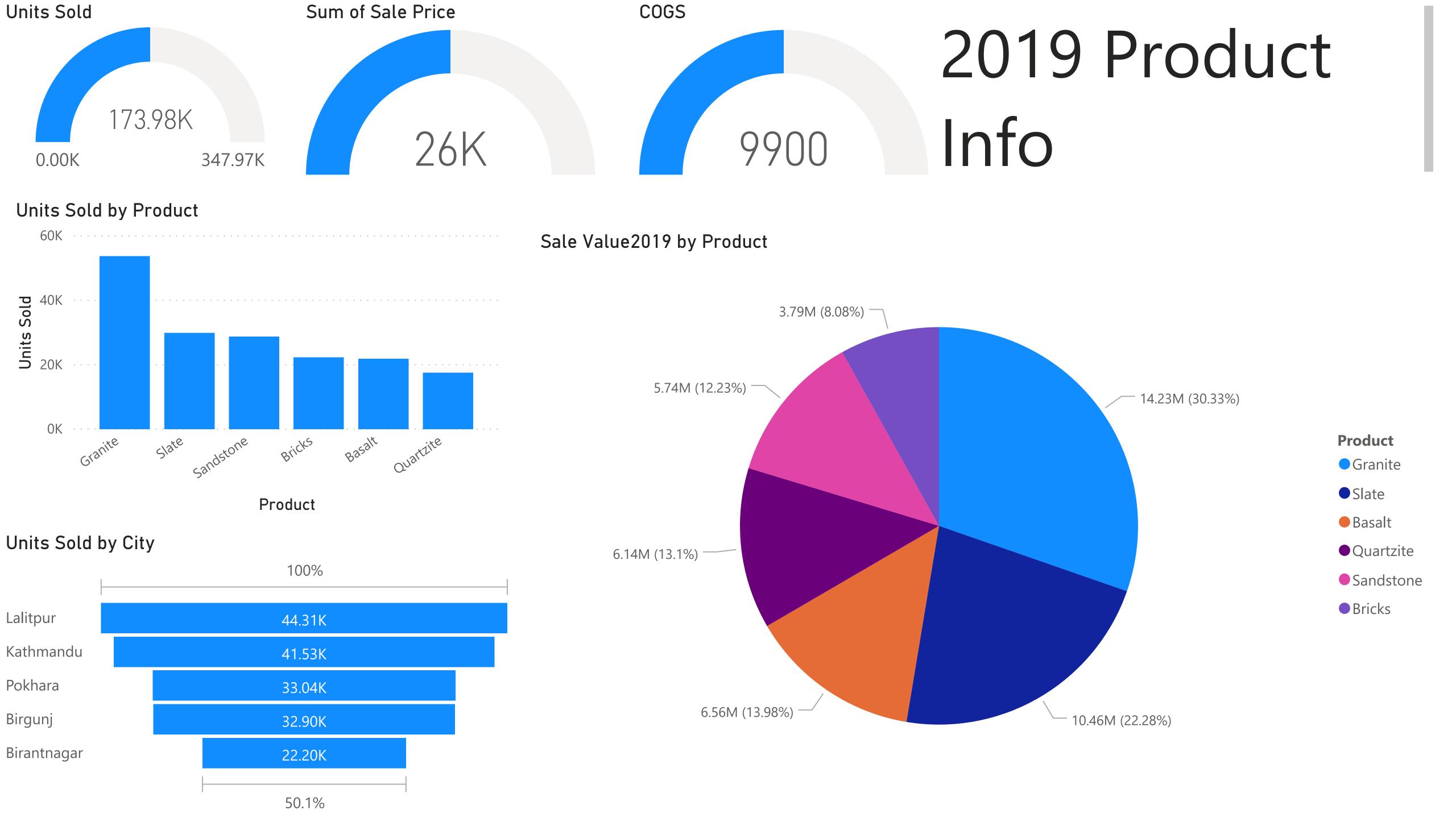
Further Improvements and Future Solutions

- 1. For future improvements we aim to reduce duplications and database normalization will be applied in order to avoid repetitions
- 2. Data on names of companies we supply as well as customers will be further investigated in order to have target customers
- 3. Use of visualisations such as calenders and slicers will be implemented in order to show data for different periods or quarters of years
- 4. Overall basic understanding of the business will be implemented in order to further improve our business

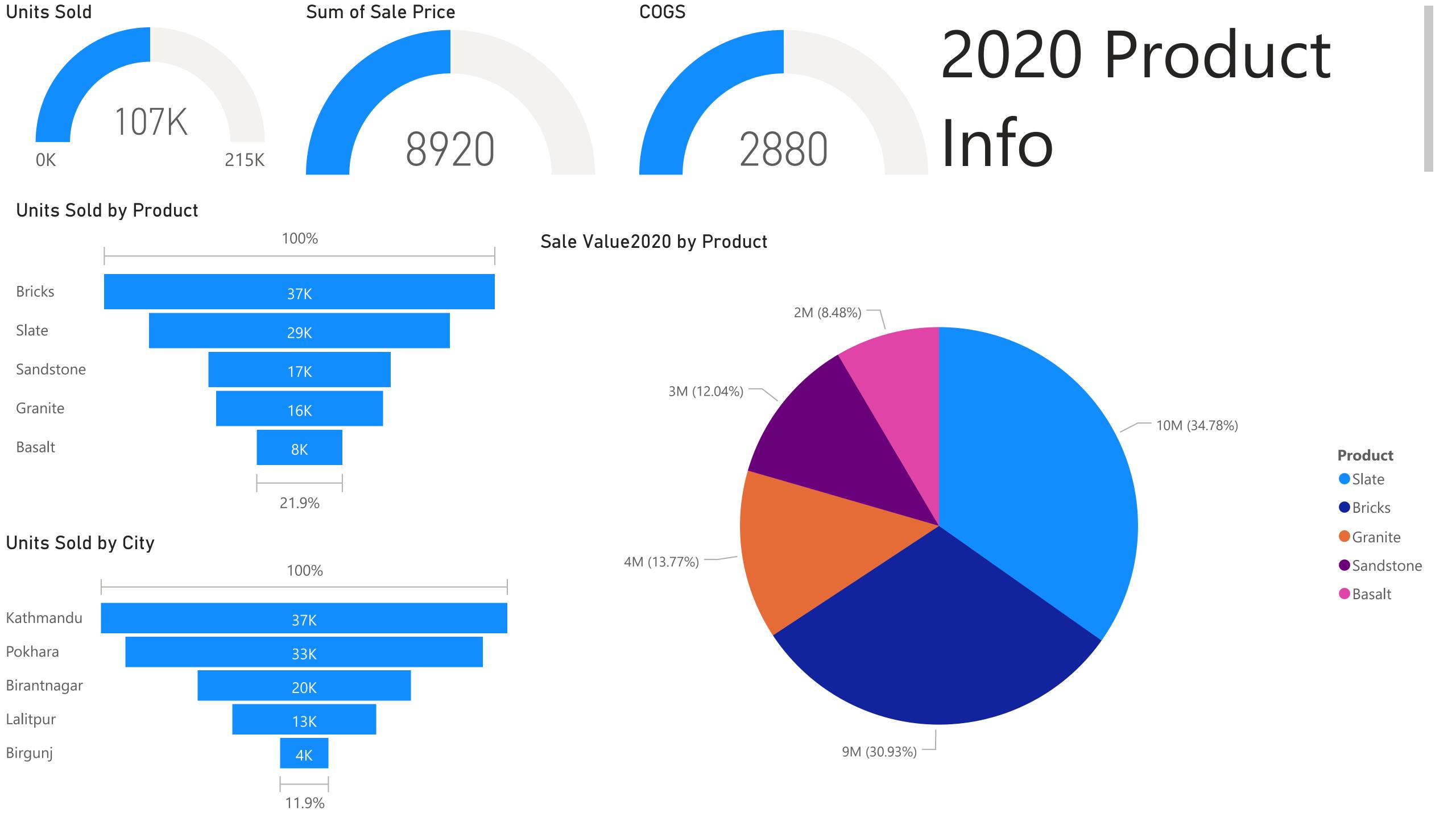






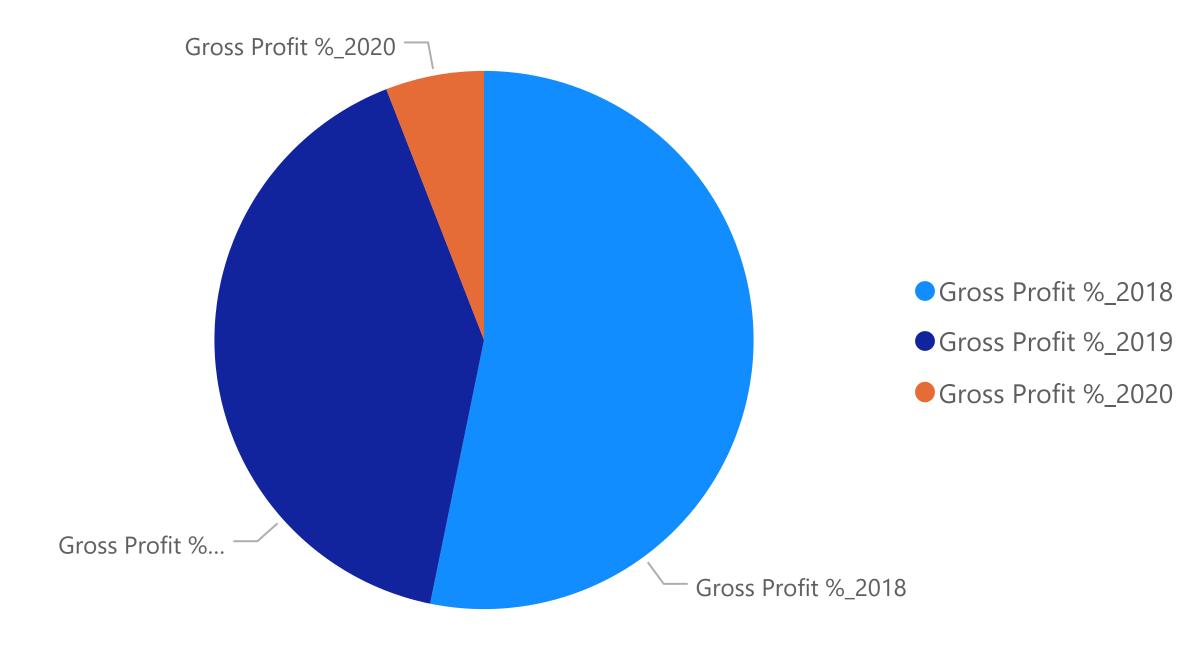






Sale Value KPI ● Sale Value2018 ● Sale Value2019 ● Sale Value2020 Sale Value2018, Sale Value2019 and Sale Value2020 Sale Value2020

Gross Profit % KPI



Conclusion

Our business shows steadily growth from the year 2018 to 2020 although the year 2020 has less Sales Value or growth compared to the other years because 2020 only took into account the months of January and February but we can predict that the sales and gross profit margin will increase.

Cities such as Kathmandu which is where most sales are from should be investigated well in order to find out why the sales are high in that city, but we assume most sales are from Kathmandu because it is the capital city so there is a lot of growth and development, and why Birgunj is the lowest selling city.

Through analysing we found out that Granite and Bricks are our highest selling products and we assume that they are the most used products for construction and decoration and sandstone and slate are average selling products.