

## DATA VISUALIZATION WITH MONGO DB ATLAS CHARTS

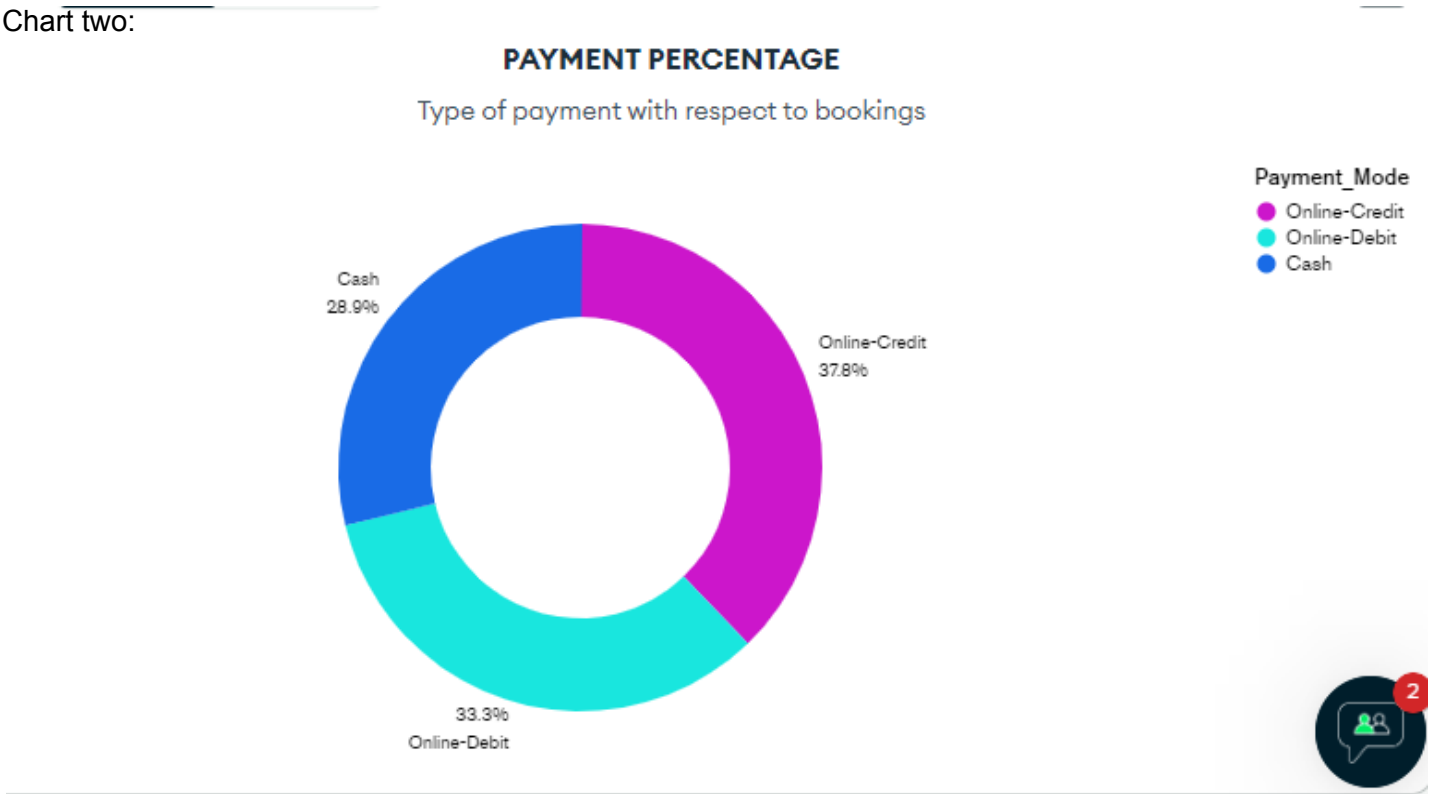
We first loaded the data into the MongoDB cloud, and then we authorized team members' access we created five charts that depict information from the SJSU rental database and visual analytics.

Chart one:



As a result, the chart depicts the city-wise booking price. Mountain View has the highest booking price among all cities at \$3,920, and Santa Clara has the lowest pricing city at \$ 500. To create this chart, we used data from the customer bookings table and aggregated the sum of the costs incurred on the x-axis and cities on the y-axis.

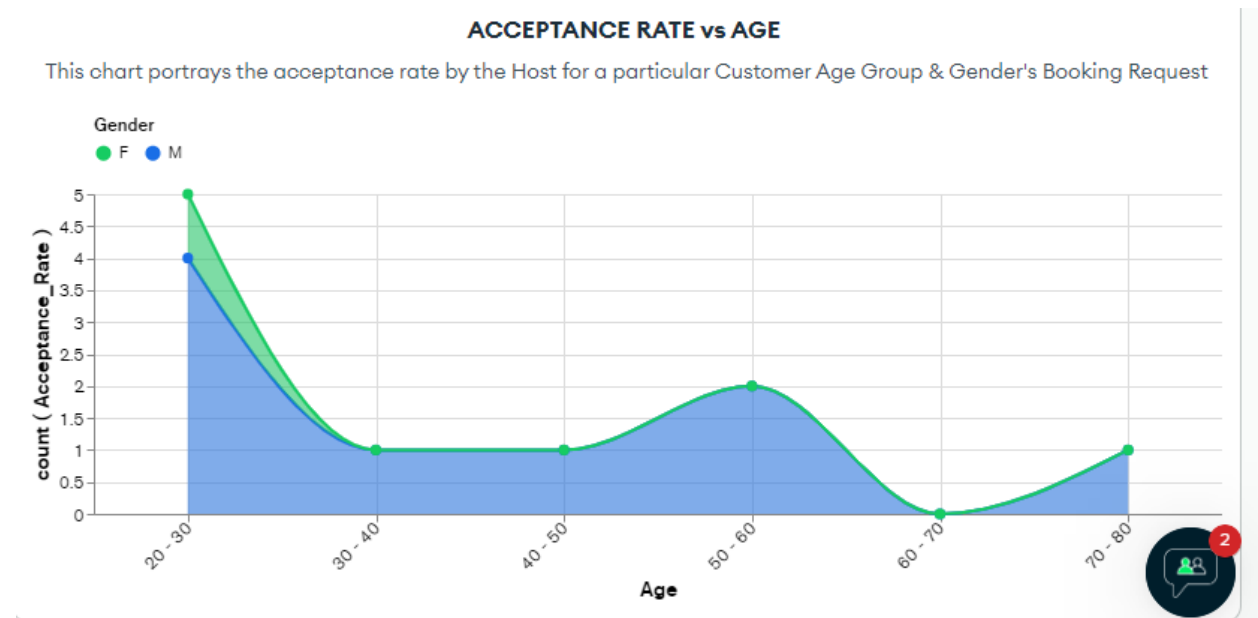
Chart two:



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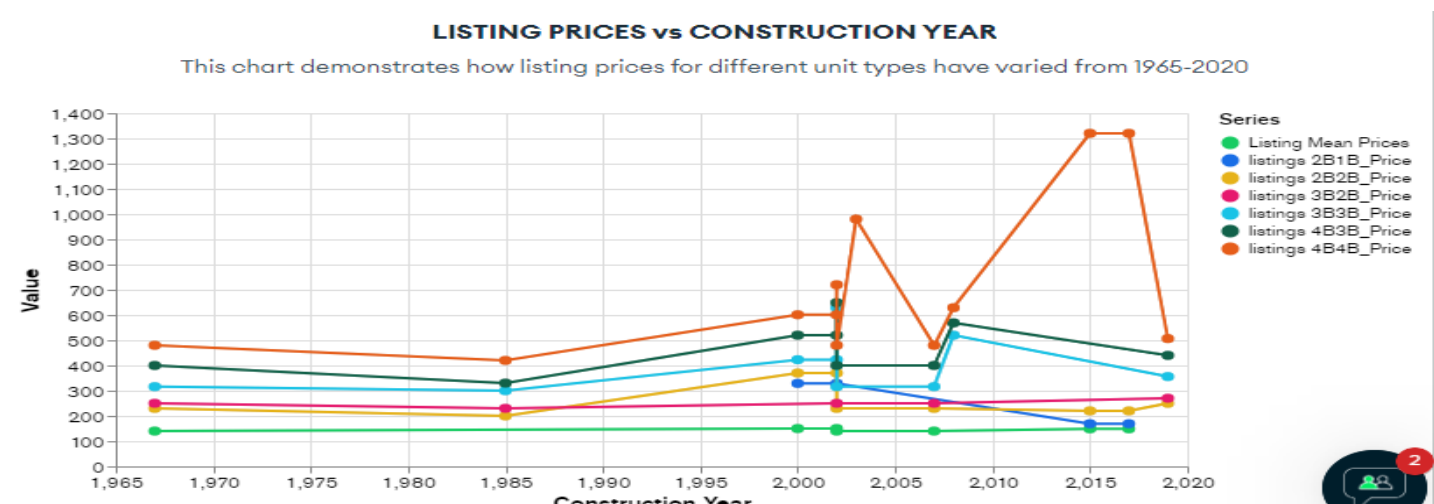
The graph we select right now is a pie or do nut chart that details the consumers' preferred method of payment. One of the key components of good customer service is the payment system. We gave it access to three different payment methods: cash, online debit, and online credit. We obtained the information from the payments table, labelled the payment method, and summed the booking IDs in the arc. We discovered that online platforms are more frequently preferred by customers than cash payments.

Chart three:



This graph shows the host's acceptance rate for a specific customer's booking for a particular age group and gender. We used two tables of host listings and amenities to display this discrete area graph. We fixed the bin size on the x-axis to 10 and aggregated the count of acceptance rate on the y-axis. The graph's insight indicates that the host is quite welcoming of persons between the ages of 20 and 30, regardless of gender.

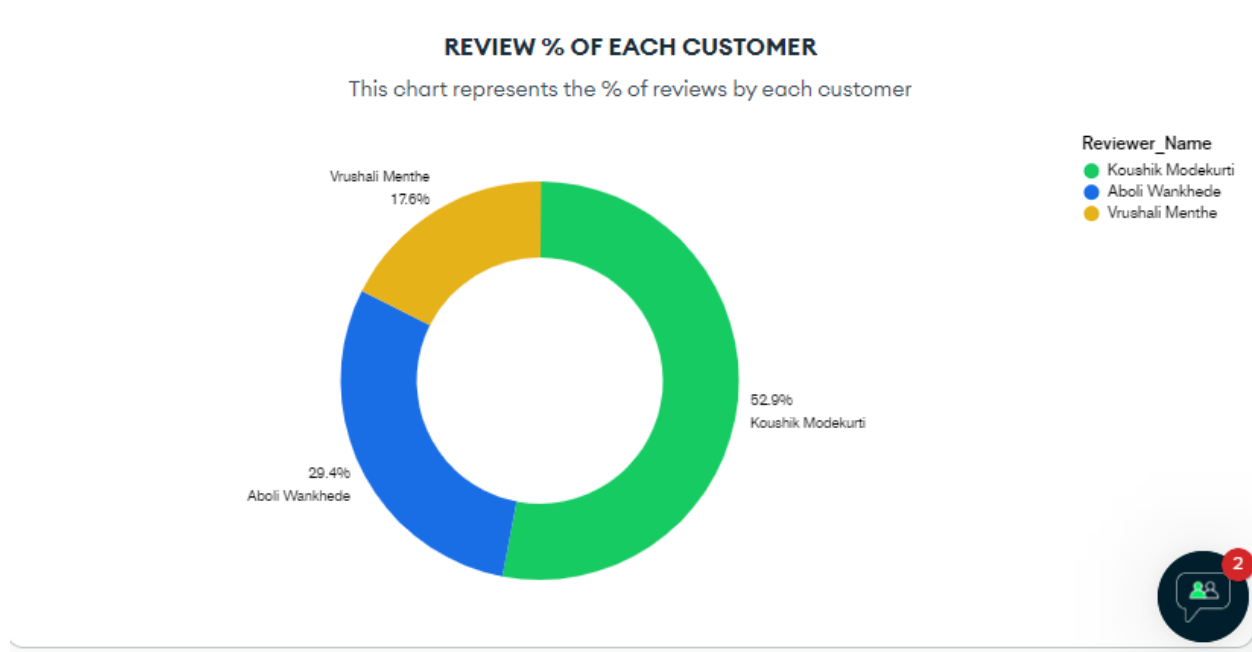
Chart four:



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This chart shows how listing prices for various unit types have changed from 1965 to 2020. We used a host listing and an amenities table to illustrate this chart. We placed the construction year on the x-axis and the mean price for various unit types on the y-axis. This gave us the insight that the price for 4B4B has increased significantly between 2015 and 2020.

Chart five:



We created a donut chart to show the reviews left by each customer. On the label, we listed the reviewer's name. On the arc, we added nice colours to distinguish each customer and calculated the average rating of all the consumers.