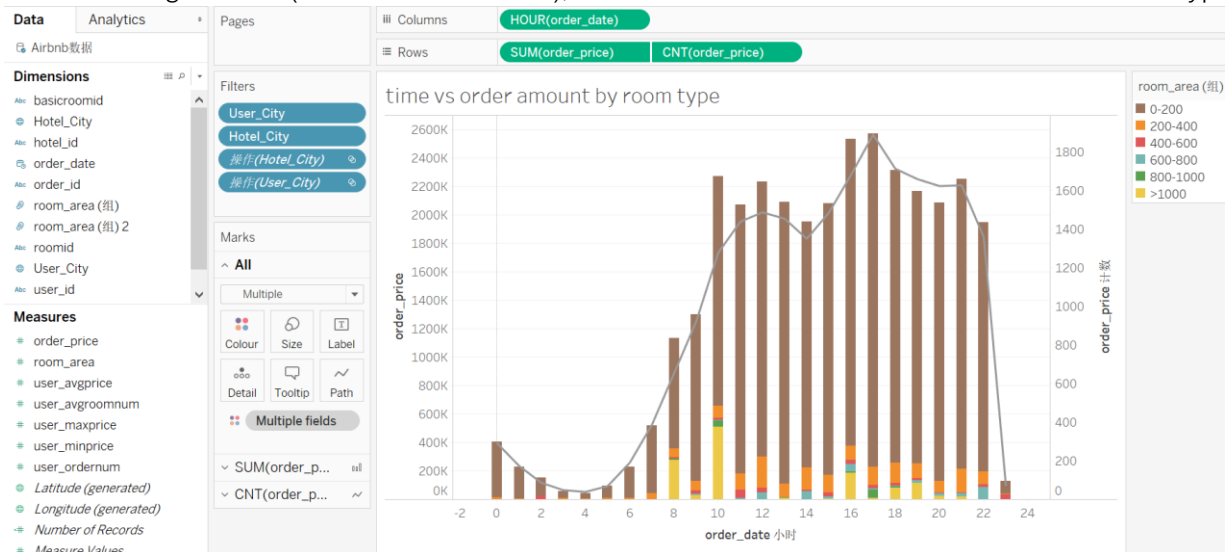


Airbnb Data Visualization Project

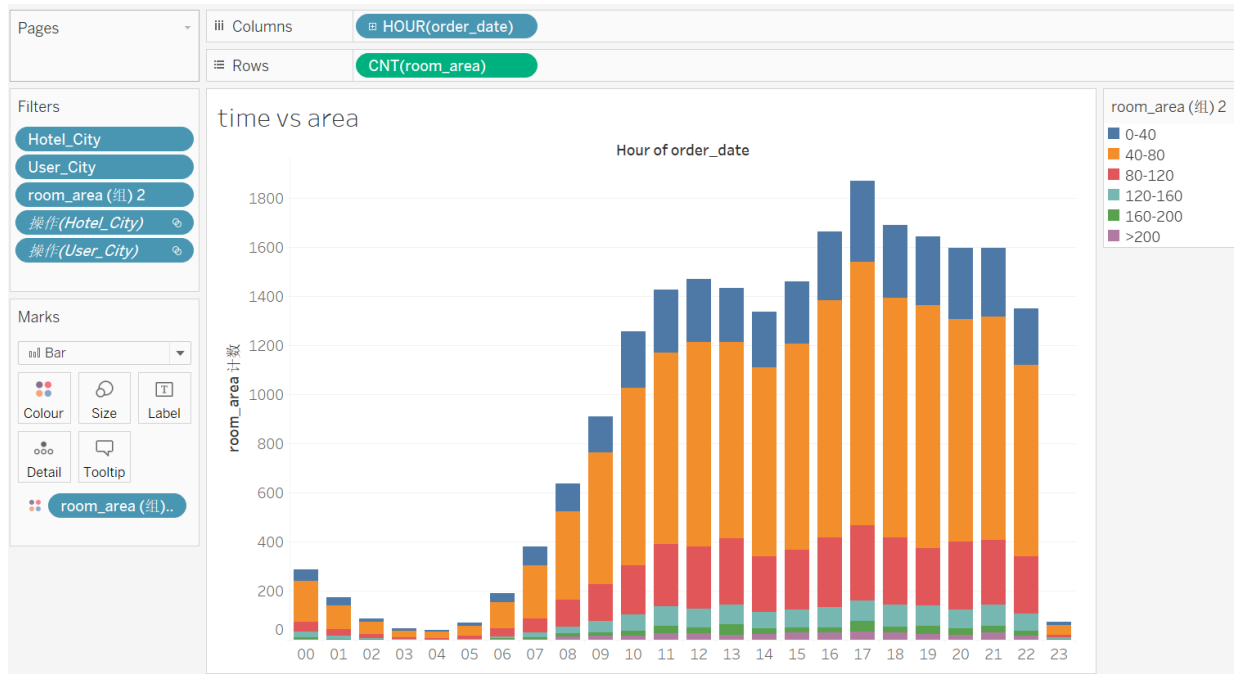
Background: Airbnb is a platform for public rental accommodation, providing short-term house or room rental. Travellers can browse and book a variety of unique rooms around the world by using websites or mobile phones. It has been one of the representatives of sharing economic development in recent years. Currently, Airbnb has more than 3,000,000 listings in 191 countries and 65,000 cities. Users using the Airbnb must register and create an account. Each accommodation is linked to a landlord whose personal documents include recommendations from other users, customer reviews of accommodations, and reviews and private messaging systems. This data covered the order date (user order time, price, room price, whether there is a discount), description of the room type (location, area, equipment provided, etc.), user's personal and historical information (Historical occupancy, average price of consumption, etc.).

1. Based on the given data(came from 2017.6.12.), describe sales and customer order trends for room types.

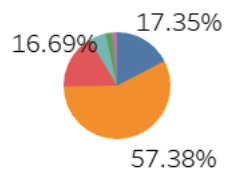


(Before conclusion found there's value '-1' in room_area, it is abnormal data, if possible we can check the original table and data dictionary about how this kind of data was collected or if it is a missing-value data representing booking cancellation, after check we can exclude it or do some further investigation)

It can be seen from the chart that the main trading time of orders on 2017.6.12 were between 10:00 am and 10:00 pm, and the average order amount in the peak hours was more than 2 million, of which the room with the area of 0-200 had the largest amount of reservations. The other room type was relatively small, so the part 0-200 can be selected for more details.

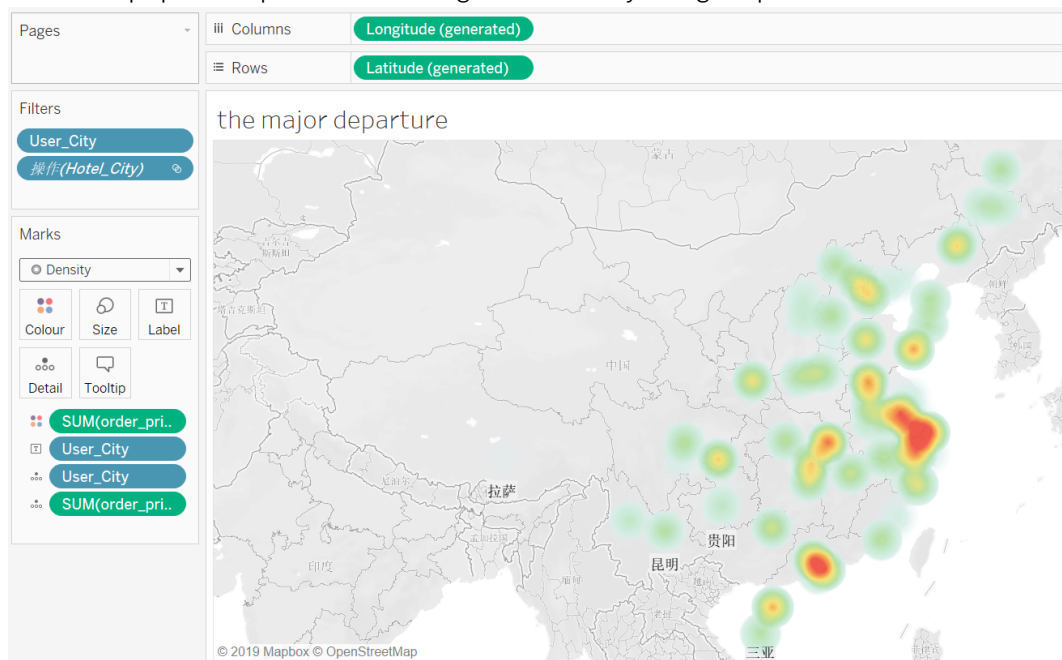


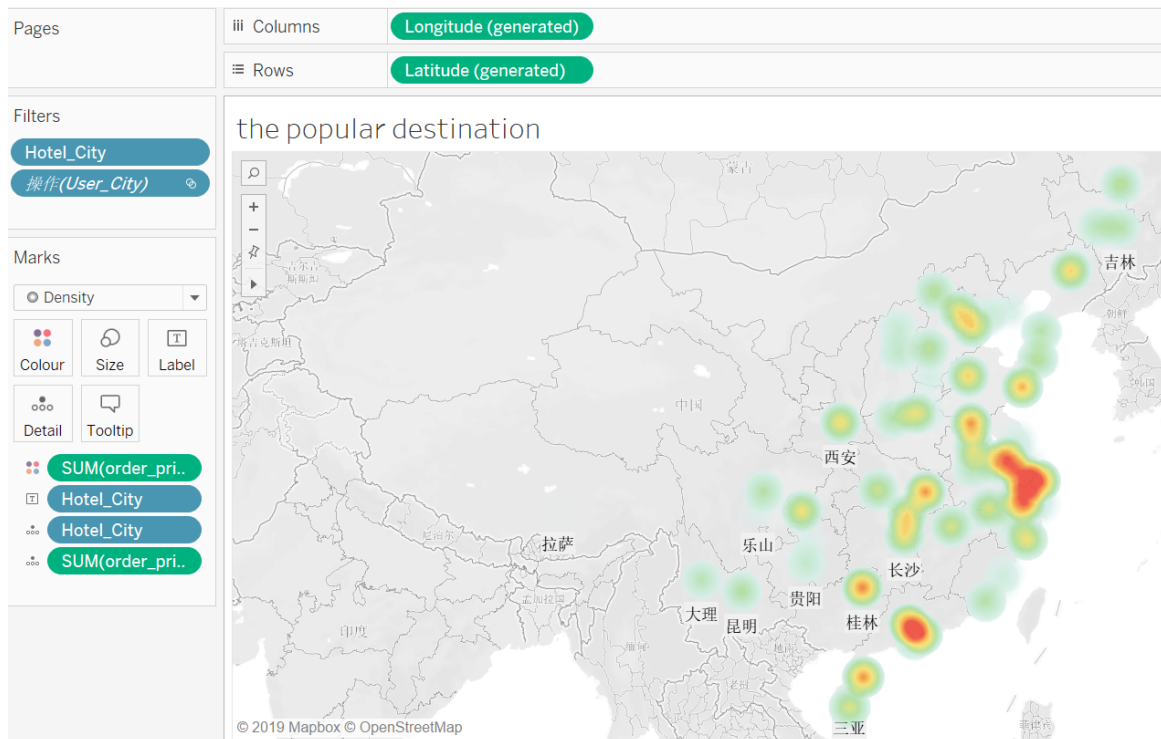
pie chart for room<200



The order quantity was subdivided according to the room type (area<200). It was found that the room area between 40-80 was the most popular room type, the percentage was 57.38%, and the minimum order was room which area>200, proportion was 1.69%.

2. Show the popular departure and living area/cities by using map.

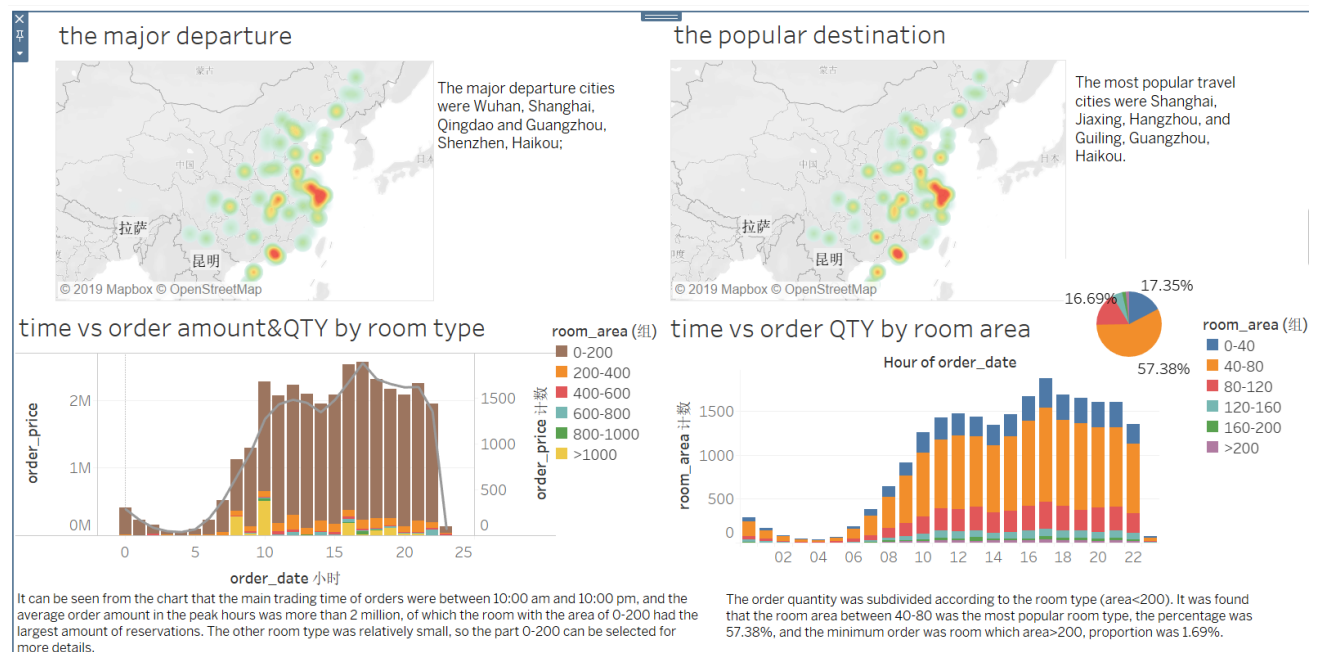




Select the departing city/destination city and the order amount to make the map. From the density color shade, it can be seen that the Pearl River Delta and the Yangtze River Delta were both the popular place of departure and travel.

The major departure cities were Wuhan, Shanghai, Qingdao and Guangzhou, Shenzhen, Haikou;
The most popular travel cities were Shanghai, Jiaxing, Hangzhou, and Guilin, Guangzhou, Haikou.

3. Create the dashboard



Each chart got the filters linkage for more convenient analysis and extra more detailed info for users.