

How does Rain affect the Hotel Business?

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Problem Statement

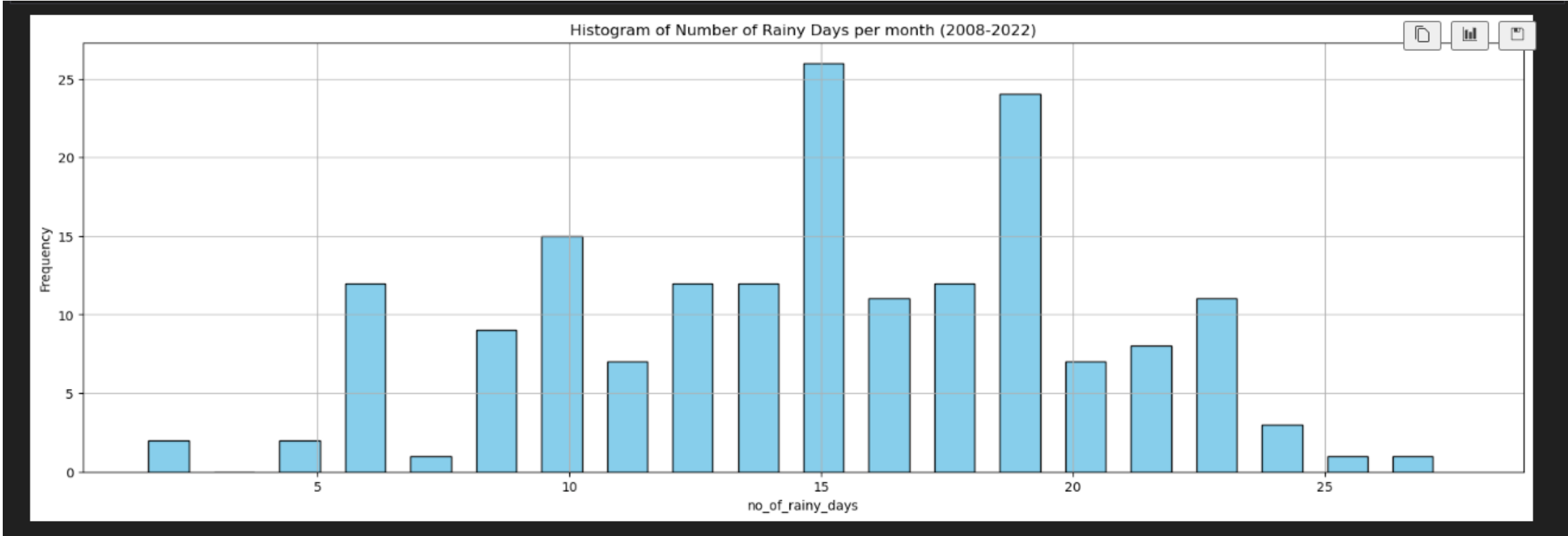
I am engaged by a hotel in Singapore to analyse how rainfall in Singapore impacts the hotel business. As it is very easy now to check the upcoming weather when planning a holiday, during the rainy season, tourists might be less inclined to travel to Singapore, resulting in less business for the hotel. With my findings, the hotel hopes to be able to allocate their resources better in different periods of the year to maximise profits.

Data Analysed

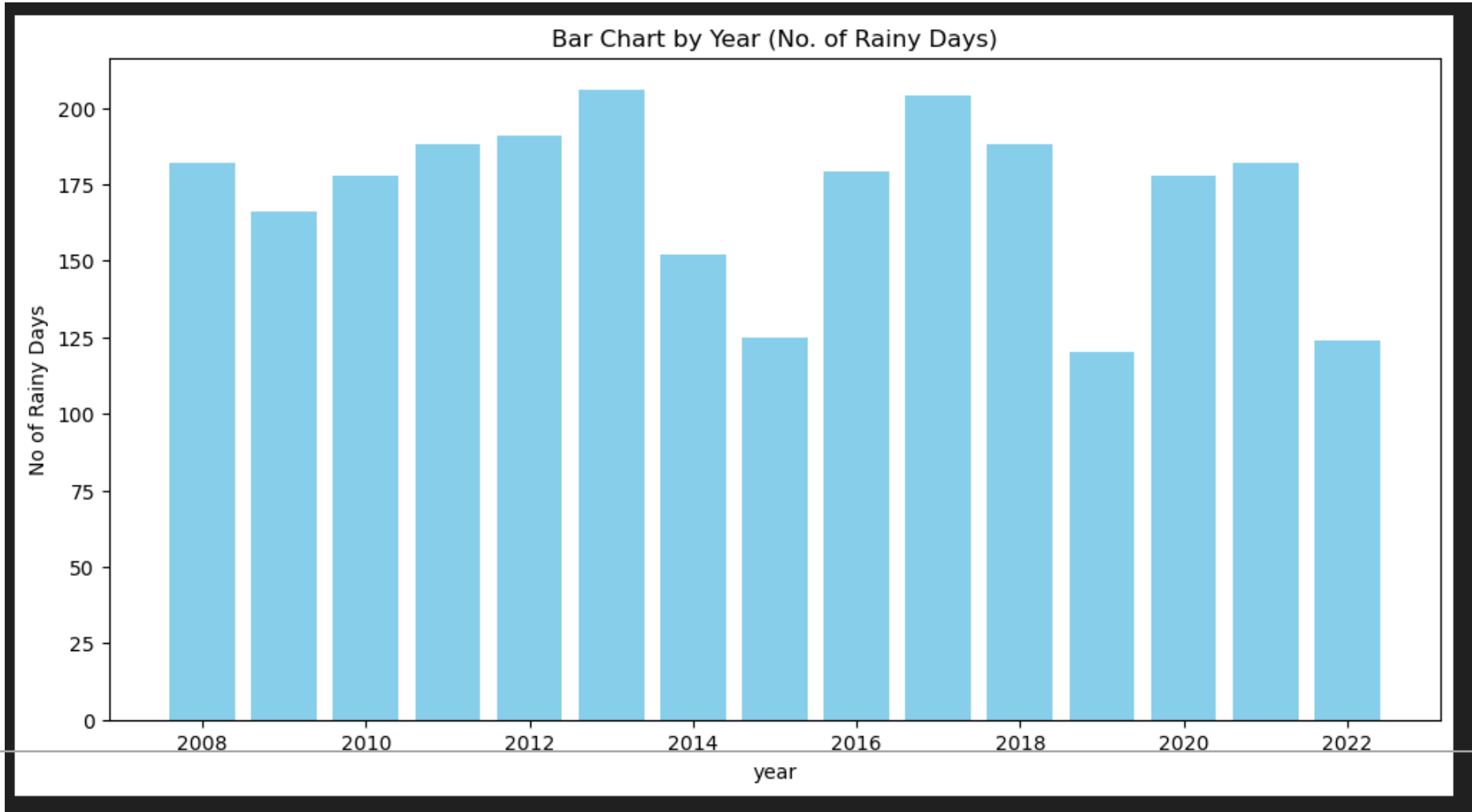
1. Hotel Room Revenue
 2. Standard Average Room Rate
 3. Standard Average Hotel Occupancy Rate
 4. Number of Rainy Days
 5. Month (from January 2008 to August 2022)
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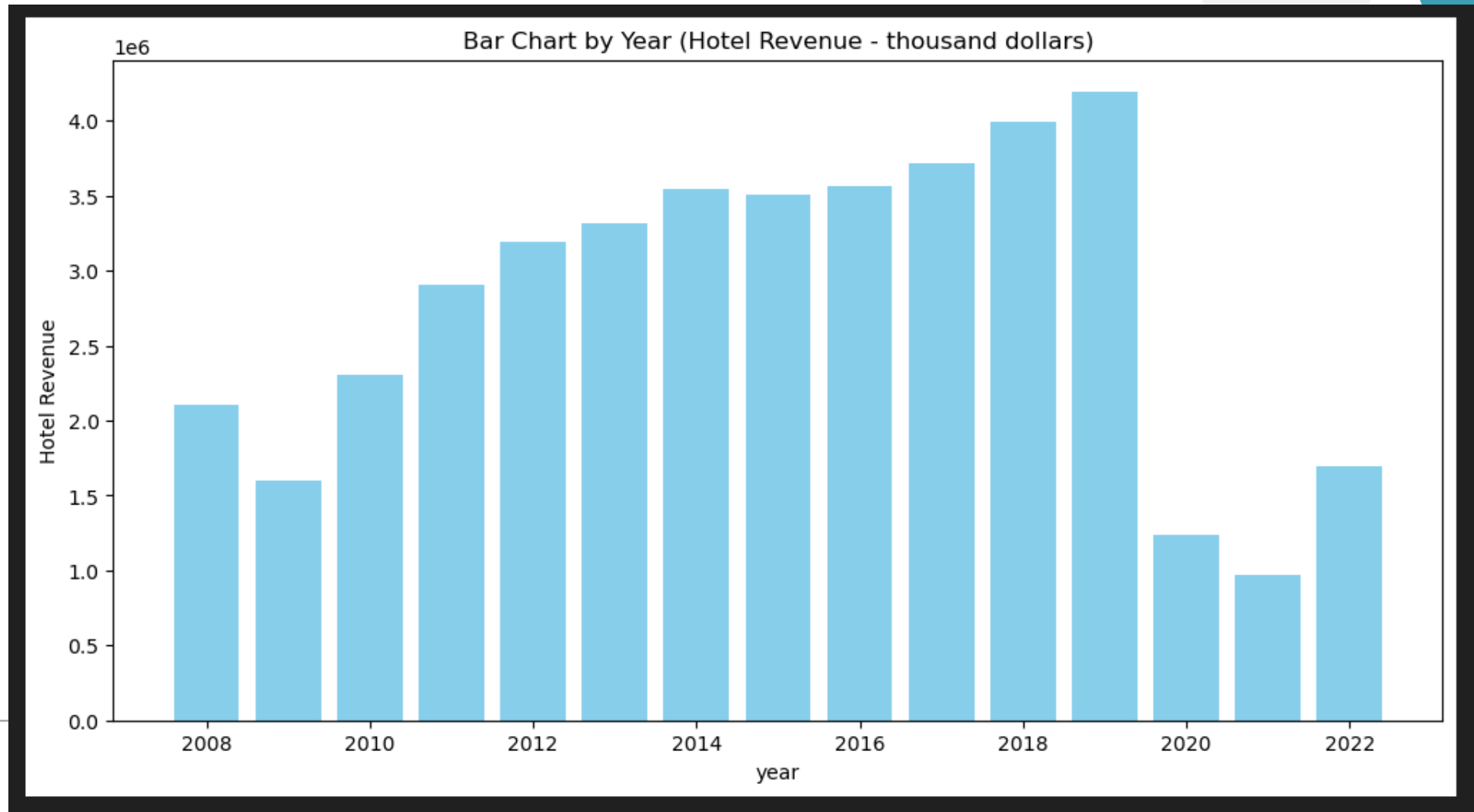
Number of Rainy Days Histogram



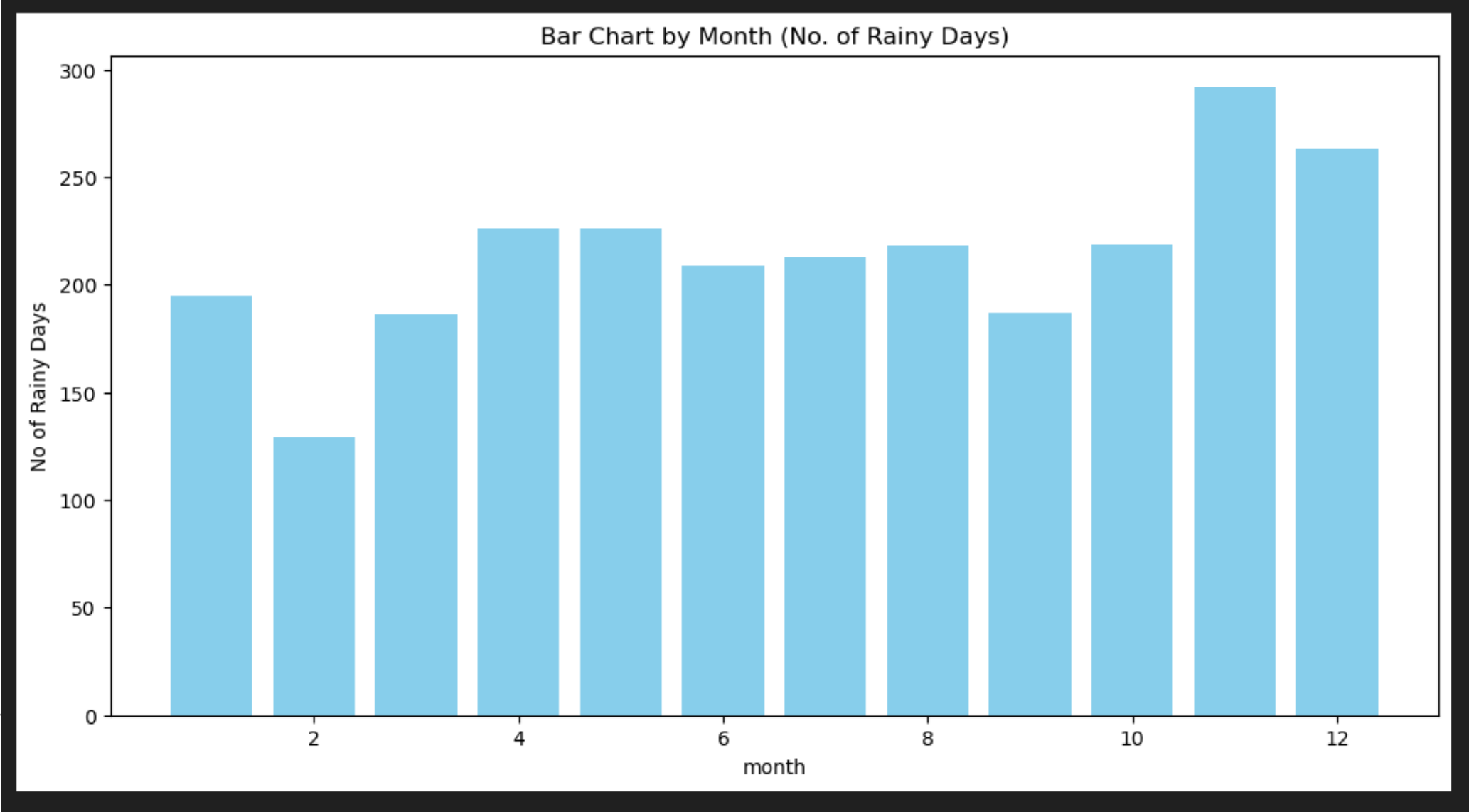
Number of Rainy Days by Year



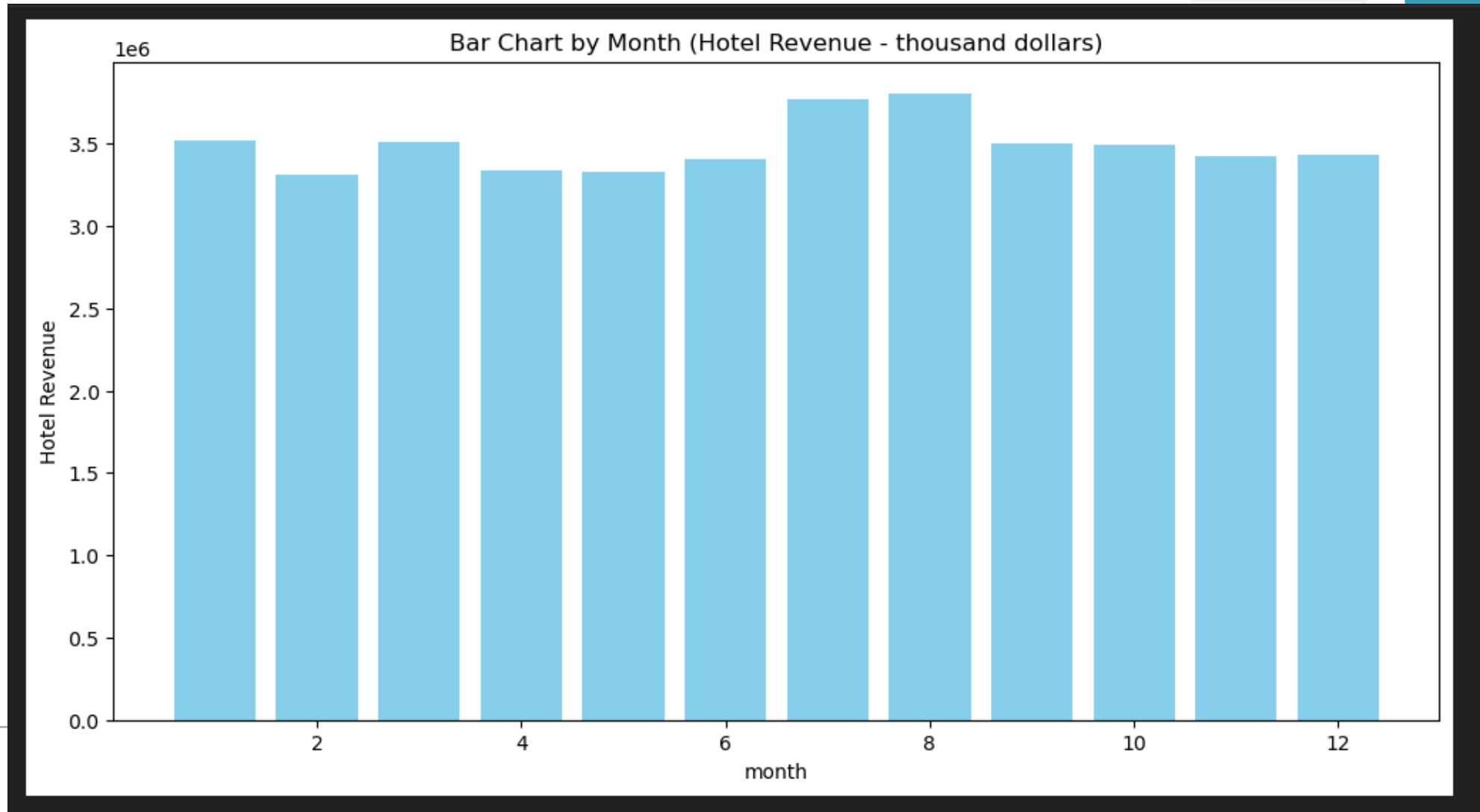
Hotel Revenue by Year



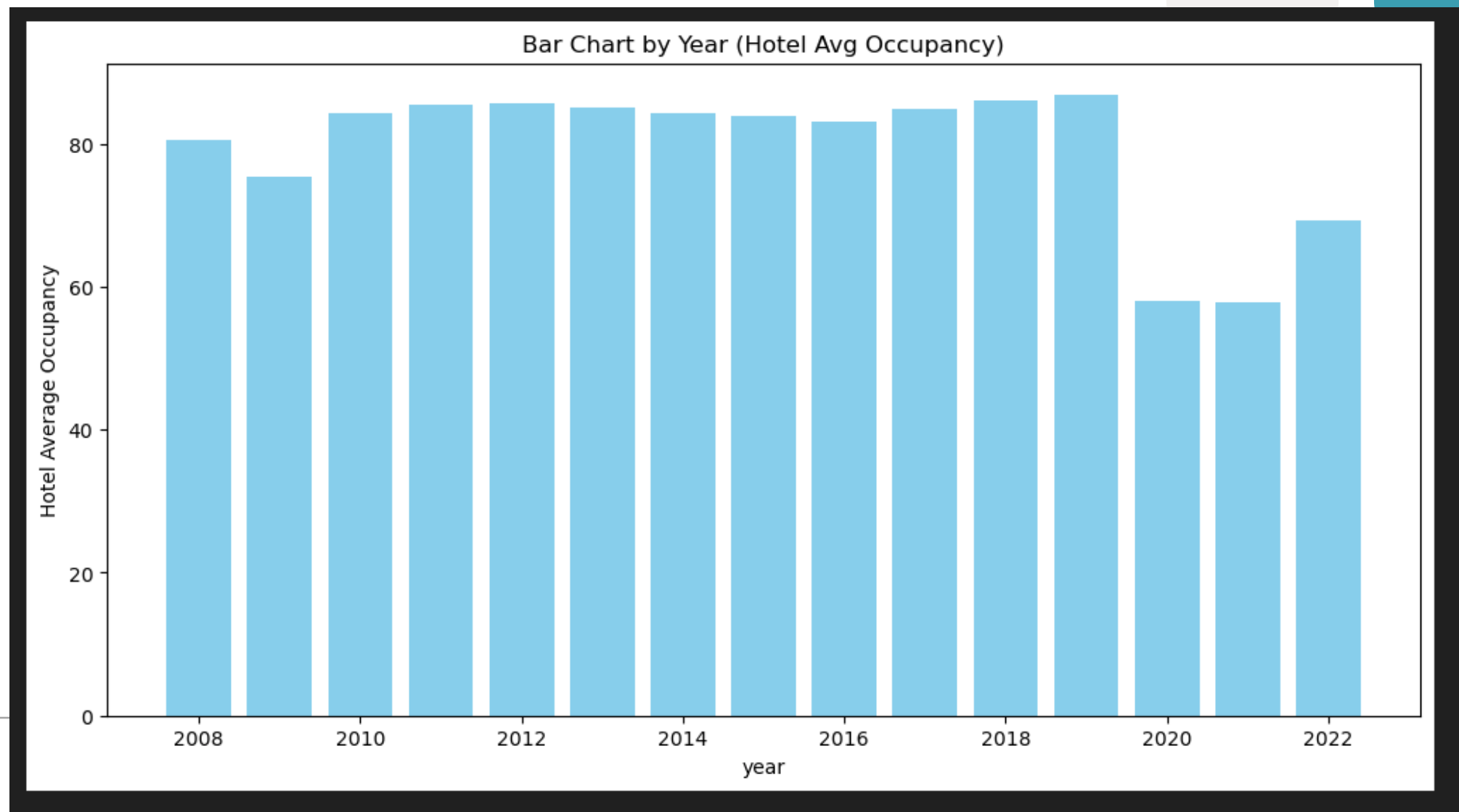
Number of Rainy Days by Month



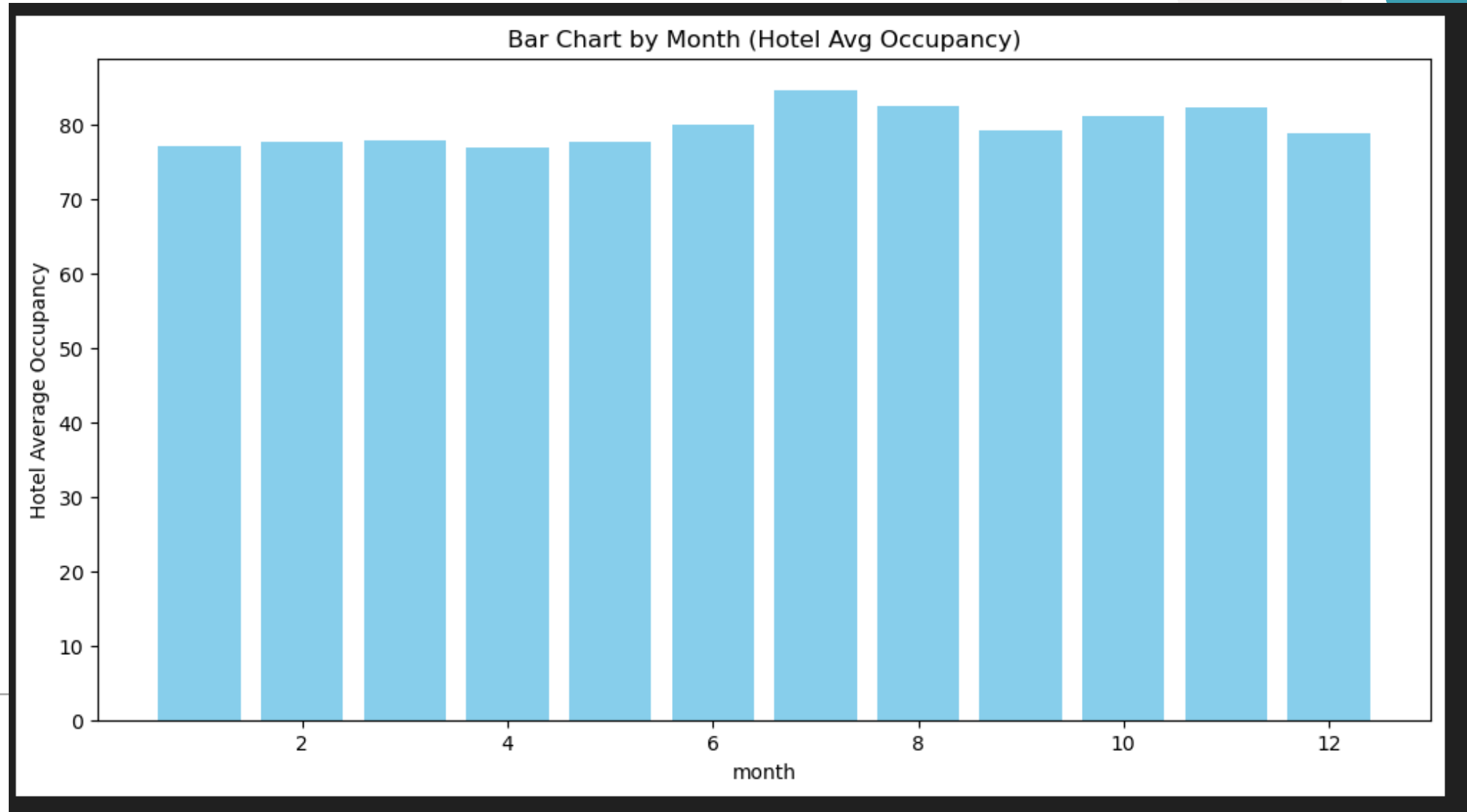
Hotel Revenue by Month



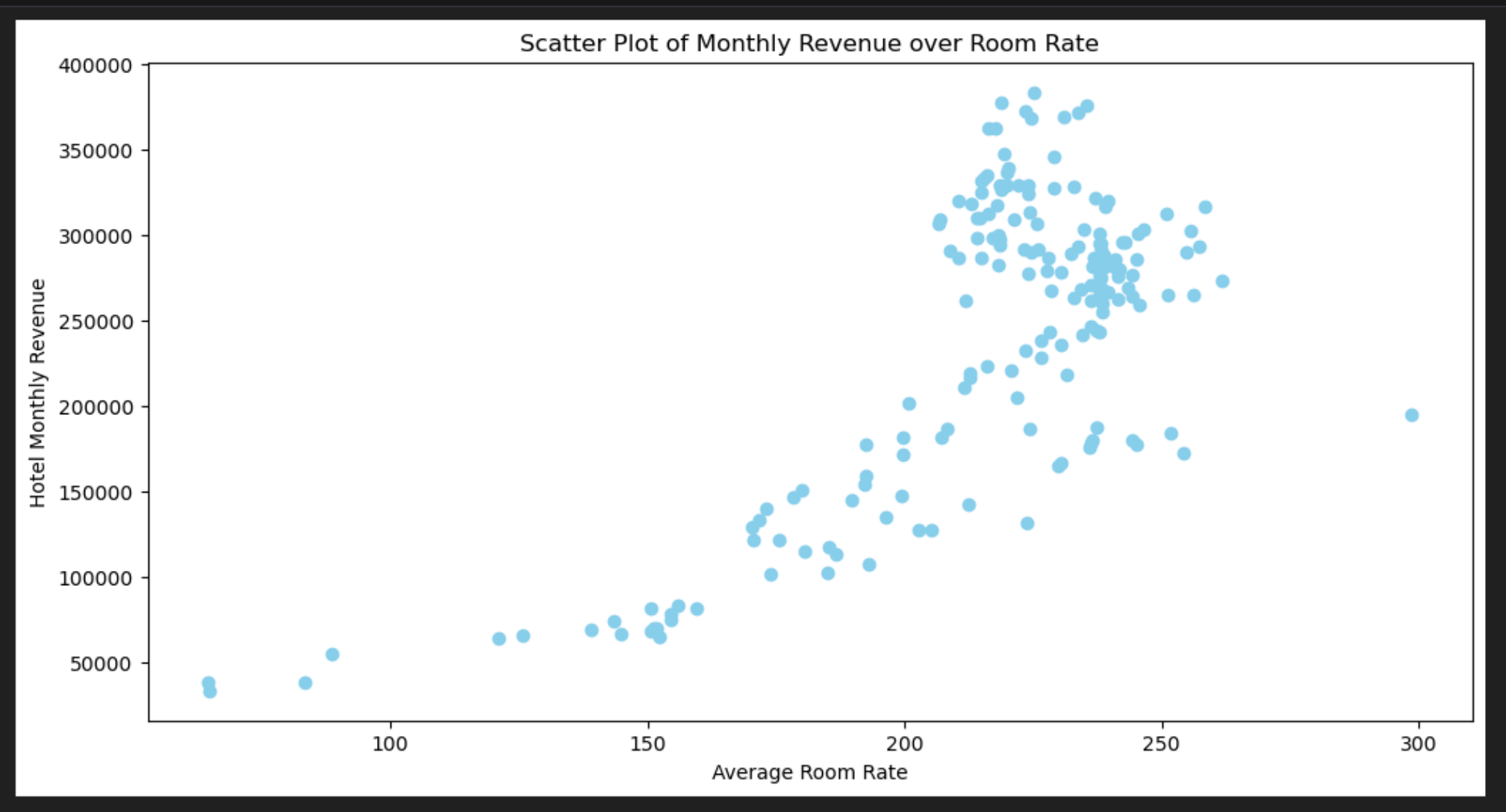
Hotel Occupancy by Year



Hotel Occupancy by Month



Monthly Revenue and Average Room Rate



Conclusion

- Amount of rainy days does not vary greatly in Singapore throughout the year
 - Number of rainy days seems to not have a significant impact on the number of tourists staying in Singapore's hotels
 - Time periods do not seem to play a major role in customers staying in hotels
 - Biggest factor is in fact **room prices**, where tourists are most likely to pay for rooms priced between **200-250** -> wealth level of tourists who visit Singapore, tourists prioritise **comfort and quality over cheap pricing**
 - Areas for further analysis: Other increasingly popular accommodation options like Airbnb, which could significantly affect the hotel industry in the future
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Thank You

