**Challenge: AirBnB in SanFran**

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| **SFO\_CALENDAR** | **SFO\_LISTINGS** | **SFO\_REVIEWS** |
| listing\_id(bigint)  calender\_date(date)  available(character) [t=True,f=False]  price(text)=> null | id(bigint)  name  host\_id(bigint)  host\_name  neighbourhood  room\_type  price(real)  minimum\_nights(int)  number\_of\_reviews  last\_review\_date  reviews\_per\_month(real)  calculated\_host\_listings\_count(int)  availability\_365(text) | listing\_id  id(bigint)  review\_date  reviewer\_id  reviewer\_name  comments |

**QUESTIONS**

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| 1. What’s the most expensive listing? What else can you tell me about the listing?   The most expensive listing is $10,000. It is in the Western Addition neighbourhood, entire home,requires a 2 night stay, only 3 reviews, and one review per month. |
| **SELECT** id,  name,  neighbourhood,  room\_type,  minimum\_nights,  number\_of\_reviews,  reviews\_per\_month,  price  **FROM** sfo\_listings  **ORDER** **BY** price **DESC**; |
| 1. What neighborhoods seem to be the most popular?   The most popular neighbourhood is Mission. |
| **SELECT** neighbourhood,  **COUNT**(neighbourhood) **AS** no\_of\_neighbourhoods  **FROM** sfo\_listings  **GROUP** **BY** neighbourhood  **ORDER** **BY** no\_of\_neighbourhoods **DESC**; |
| 1. What time of year is the cheapest time to go to San Francisco? What about the busiest?   The cheapest season to visit San Francisco is winter.  The busiest season is winter. |
| *#Cheapest season*  WITH  monthly  **AS**(  **SELECT**  **EXTRACT**(**MONTH** **FROM** calender\_date),  listing\_id,  available  **FROM** sfo\_calendar  )  **SELECT**  **SUM**(sl.price) as total\_price,  (**CASE** **WHEN** m.date\_part **BETWEEN** '3' **AND** '5' **THEN** 'Spring'  **WHEN** m.date\_part **BETWEEN** '6' **AND** '8' **THEN** 'Summer'  **WHEN** m.date\_part **BETWEEN** '9' **AND** '11' **THEN** 'Autumn'  **ELSE** 'Winter' **END**) **AS** season  **FROM** monthly m  **JOIN** sfo\_reviews sr  **ON** m.listing\_id = sr.listing\_id  **JOIN** sfo\_listings sl  **ON** sr.id = sl.id  **GROUP** **BY** season  **ORDER** **BY** total\_price; |
| *#Busiest season*  WITH  monthly  **AS**(  **SELECT**  **EXTRACT**(**MONTH** **FROM** calender\_date),  listing\_id,  available  **FROM** sfo\_calendar  **WHERE** available = 't' *--True meaning available*  )  **SELECT**  **COUNT**(m.available) as busy\_time,  (**CASE** **WHEN** m.date\_part **BETWEEN** '3' **AND** '5' **THEN** 'Spring'  **WHEN** m.date\_part **BETWEEN** '6' **AND** '8' **THEN** 'Summer'  **WHEN** m.date\_part **BETWEEN** '9' **AND** '11' **THEN** 'Autumn'  **ELSE** 'Winter' **END**) **AS** season  **FROM** monthly m  **JOIN** sfo\_reviews sr  **ON** m.listing\_id = sr.listing\_id  **JOIN** sfo\_listings sl  **ON** sr.id = sl.id  **GROUP** **BY** season  **ORDER** **BY** busy\_time **DESC**; |