**Group 3.06**

**VACATION RENTALS AND EXPERIENCES DATABASE**

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**INTRODUCTION:**

Travelling is one of the most popular activity in modern society.

While travelling around the world, travellers often don’t get accommodation according to their needs. Some want it at low price, some want to cook their own food where they stay, some people may have sudden change of plans and can’t find a hotel.

The database connects travellers and property owners.

For travellers, not only do they get affordable accommodations, but they also get an experience that more closely resembles being a local. Property owners get to monetize their homes. Also the database connects local guides and travellers so that travellers can visit the famous places nearby along with local person.

**SCOPE OF THE DATABASE:**

We are addressing to three community: **Tourists/guests**, **Room providers/home owner/hosts**, and **Local guide**.

Tourists can rent an entire home, or private room, or shared room from a Room owner/host. Guests can look for rooms in their budget/price range and other requirements. Also guest can filter rooms on the basis of number of bedrooms, number of bathrooms, availability of wifi, pools, kitchen, TV etc. Tourists can rate their experiences about their stay and about the local guide (if availed).

Hosts can make their homes (extra space in their home) available for other guests around the world. The charges for a room is upto them and can set limitations/rules like no smoking or no pets allowed. A profile of the host's place is added to the large database where Tourists can see it and then they can interact with each other. Hosts can also rate the guests about how good/bad their guests have been so that other hosts can be benefitted knowing which guests to allow to stay. Guests can also rate the hosts so that other people will know which guests to choose based on other’s experiences.

Local guide can make himself/herself available for a particular time of the month or hours of a specific day,and can visit places with tourists..

**DESCRIPTION:**

* Each Tourist/Guest will have a tuple/entry in the Tourist relation with attributes like Name, Address, Email, Method of payment he/she’d pay with, Rules like Smoking, Drinking allowed, etc.
* A user can become a *host* and can rent a home also or he can become a local guide for the guests by creating an *experience* on the site.
* A rented home can have attributes like room type (entire,private or shared), number of bedrooms, number of bathrooms, description of amenities, facilities, rules you have to follow if any, location, price, maximum occupants, etc.
* An experience will belong to any of the category like sightseeing, shopping, arts, nature, music, fashion, sports, etc.
* An experience will have maximum duration, maximum occupants, description, guest requirements, date, etc.
* A user can sign up as a business traveller also and search for business travel ready rooms or can sign up to manage travels for employees of his own company.
* Also there will be review system for the experiences and rented homes.
* A *listing*(rented home or experience) will be related to review, host and a location.
* For each listing,a host can add a *guidebook* in which he can suggests places to visit nearby.
* Hosts who are performing well can be given a badge for their good performance. So potential guests can easily identify good hosts.
* Some bookings will have facility of instant booking.
* Trips completed and wishlist for a particular user will also be recorded.

**SAMPLE QUERIES:**

1. All the users who have stayed in Paris in less than 5000 euros in a 2 bedroom apartment.
2. All the hosts who have more than 4.5 reviews and are offering a rented app 2bhk home in sydney under less than 2000 euro and are also offering a “art” experience between 15-17th sept
3. Top 3 countries which have the lowest avg rent.
4. For each Month find the country which saw the most number of listings(SP).
5. Given a set of amenities, find out the listings agreeing to all of them in less than 50 cost price in the month of december in Kasukabe.
6. Find out the total number of listings for each country having review less than 3 stars
7. Find out the listing most relevance to my wishlist currently available in the next 10 days. (relevance can be defined)
8. List all the experiences by user ‘Gav’ involving Chicago as a location under category Scuba Diving.
9. List all business ready rooms in mumbai for tomorrow in less than 5000 rs for 2 occupants.
10. Find the place which has been mentioned the most in guidebooks.
11. Find the places which have not been mentioned in any guidebook.
12. Find all the users who have stayed in more than 3 countries and have received a avg rating of more than 4.
13. Find all the art experiences available in spain in the next month.
14. Find all the homes which have at least 3 bedrooms and have a ‘Concert’ type experience in the same city.
15. Find all the users who want a 2 room ‘Entire Home’ and also wants the experience ‘Scuba Diving’, given that a particular user has 3 friends.
16. No of people from India who visited United States last year.
17. Given a username find all the places that he has visited
18. All the guests living in a particular listing
19. Host who has earned the most till now in a particular country(SP)
20. Output place names that a user can go to, which has the amenities <something bla bla bla> with 3 mates, for at least 4 days, for less than 50$, with an Indian host, who speaks English, after september ‘16, in <Some country>
21. Output host ids that have listings in United States and had more than 10 guests in 2016, that do not have the nationality of either China or Russia.
22. Effective cost for a user given the listing id and number of people.(SP)
23. Country-wise most wished location id, thus name of places.
24. If USA allows guests with rating above <say 3> only, give sex-ratio of people entering USA
25. Which nationality prefers USA in wishlist the highest opting for minimum stay for <4 days>
26. Average rating of a user(as a guest, as a host, as a listing) (Views)