

In queries, when asked to "find users", return the user id, first name, and last name of the user.

1. List all those villas that are equipped with Jacuzzi and follow a no-pet policy.
2. List the villa owner names, as well as the count of villas they own, sorted by count of villas.
3. Find the (first and last) name of all users who have ever used a coupon code offering a discount more than 10%.
4. Find the name of top three users who have had the highest amount of deposit during 2013.

**Notes:** Please note that a user (e.g., Jesse Jackson) might have two of the three highest-deposit reservations and this is totally fine.

5. Find the average age (in years) of users who rented villas during low-season last year (i.e. from September to December 2013).

**Notes:** Please note that a user who reserves a villa in late December 2013, and leaves the villa in Jan. 2014, is among the users that have rented the villa within the period of September to December. Also, note that we are interested in the average age (in years) at the time of reservation (start date). If a user is involved in two reservations, his age will be used in the calculations twice.

6. Find the three villas and their associated owners, who have the highest average user rating.
7. Find the villa with the highest count of reserved nights in 2014.
8. Find the most famous reviewer: the user who owns reviews that have been liked the most for a larger number of villas compared to any other reviewer. Please note that we are NOT looking for the user who has received the largest total number of likes. Rather, we care about the count of villas in which a user's reviews were considered as the top review.

**Example:**

A, B, and C are three reviewers.

v1,v2,v3 are three villas.

below you can see the "like" table.

\*\*\* V1, V2,V3

A: 5,4,3

B: 4,3,2

C:6,2,1

C has the largest number of reviews for V1 only (1)

B does not have any comment which has gained the most likes (0)

A has the largest number of reviews for V2 and V3 (2)

Thus, user A is the answer.

9. Find the vacancy ratio for each owner in 8/15/2014. The vacancy ratio is defined as the ratio of villas not reserved for a specific date, over the total number of villas owned by that owner.

10. Find any user who has reserved two or more villas at overlapping periods. Such a user has two or more reservations with overlapping (but not necessarily the same) stay periods. Example:

Consider two reservations made by the same user which both end on Friday. One starts on Wednesday and the other on Thursday respectively. They have Thursday as a day in overlapping period (thus a non-empty

overlapping period for reservations of this user). Both reservations end at Friday noon so Friday night is not in the intersection period.

11. List the name of all villa owners, who own villas with a 10% or more growth in the count of reserved nights in the first 8 months of 2014 compared to the similar period in 2013.