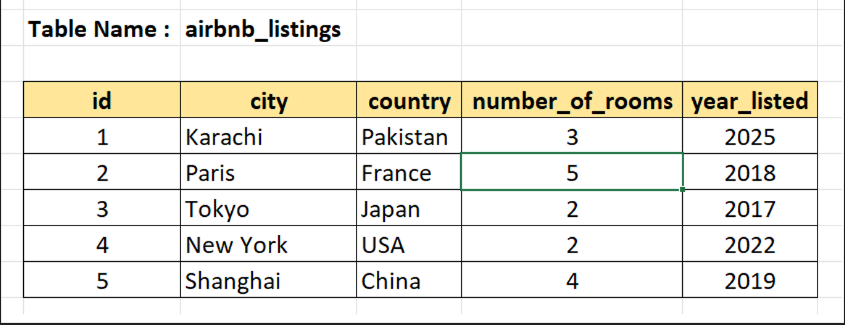
**NAME: SAQIB HUSSAIN**

**ROLL NO: 215-saqibhussain151214\_Ba\_coursemea**

**Assignment # 03 (Part B of Assignment # 01)**

**Answer the following SQL Basic Questions of appended table:**



In this assignment, you will make practice of :

1. Querying Table
2. Filtering Data
3. Aggregating Data

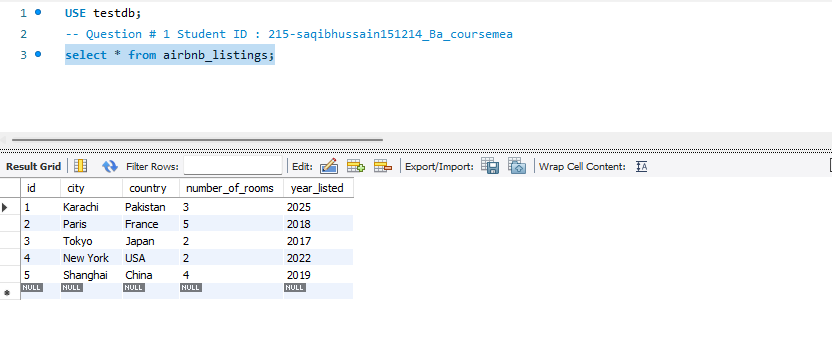
**Instructions :**

* Use SQL , write the query against each question and execute /run.
* Take the screenshot with answer and paste against each question (with your Name in comment. I want your Name in each Screen shot to avoid cheating)

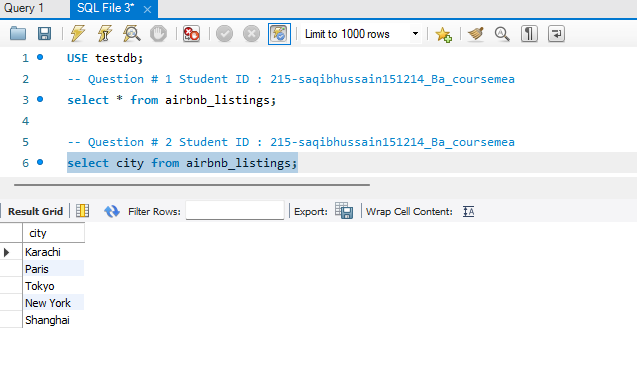
**Querying Table :**

1. Get all the columns from a table

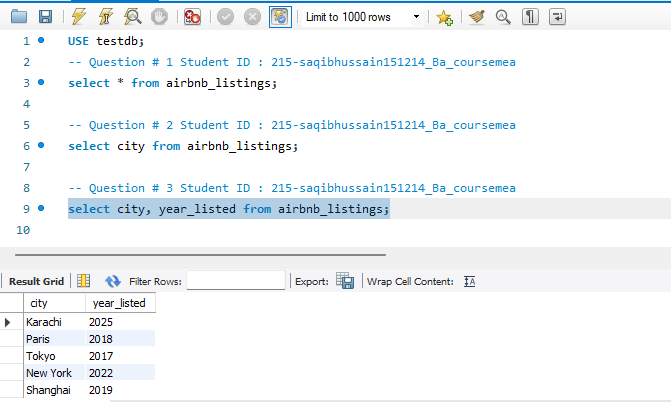
**Ans :**



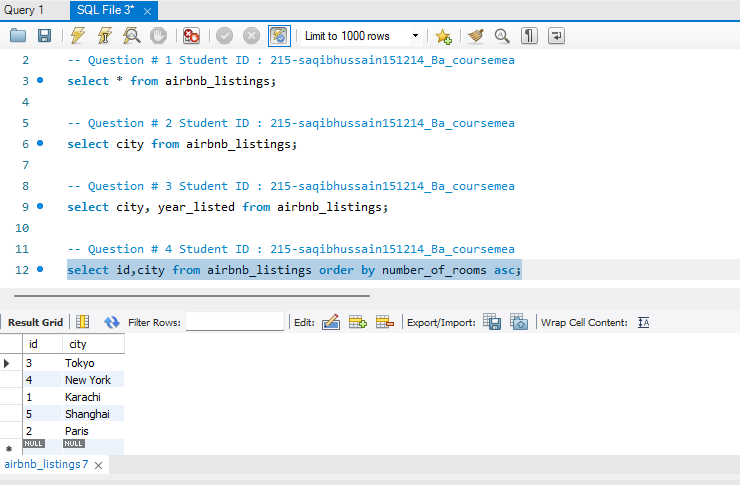
1. Get the city column from the table

**Ans : **

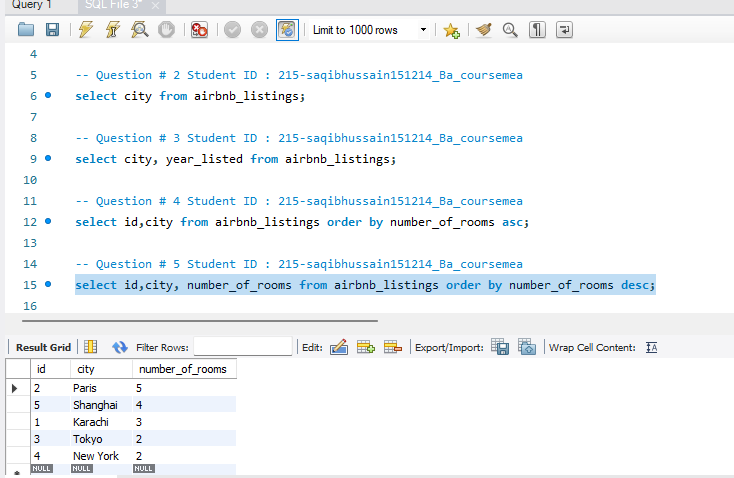
1. Get the city and year\_listed columns from the table.

**Ans** : 

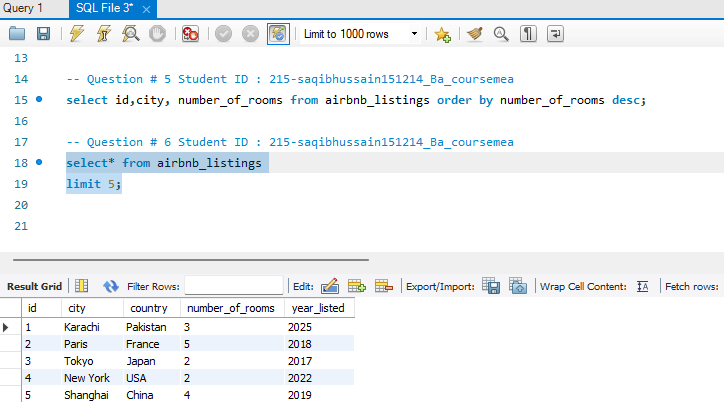
1. Get the listing id, city, ordered by the number\_of\_rooms in ascending order.

**Ans :**

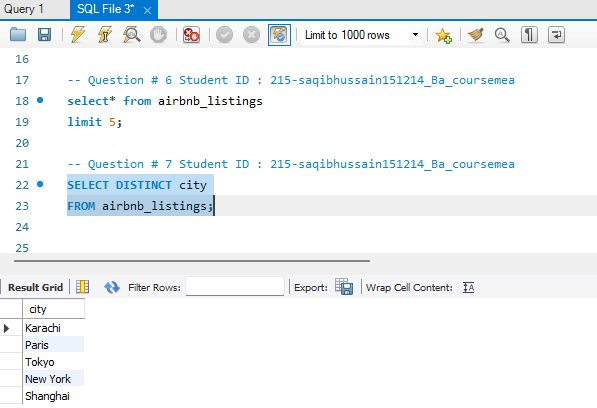
1. Get the listing id, city, numer of rooms , ordered by the number\_of\_rooms in descending order.

**Ans : **

1. Get the first 5 rows from the airbnb\_listings table.

**Ans :**

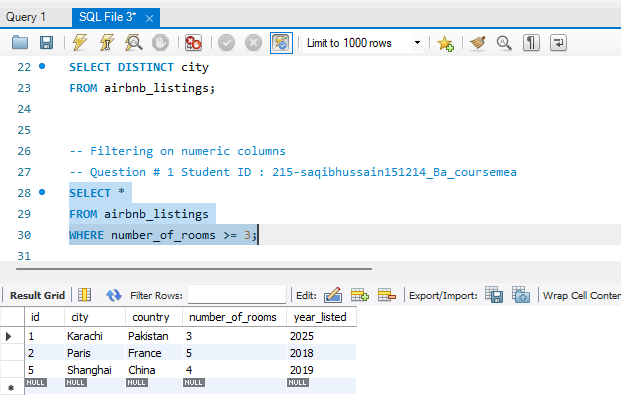
1. Get a unique list of cities where there are listings

**Ans :**

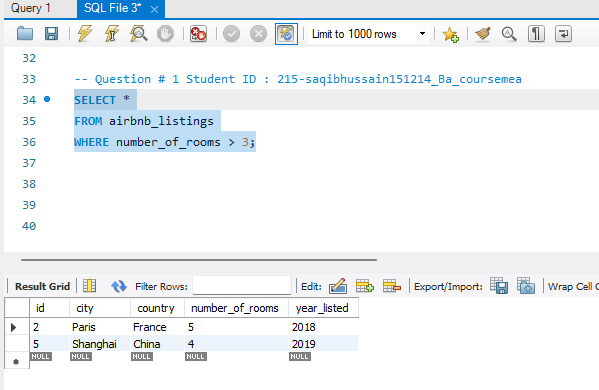
**Filtering Data :**

**Filtering on numeric columns**

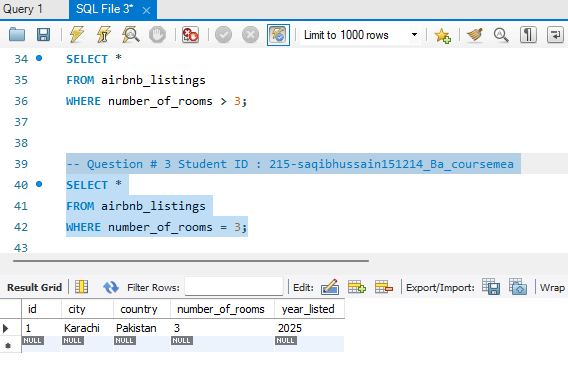
1. Get all the listings where number\_of\_rooms is more or equal to 3.

**Ans :**

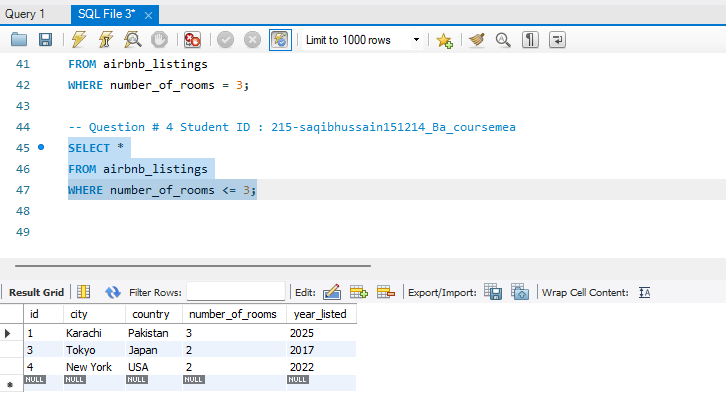
1. Get all the listings where number\_of\_rooms is more than 3.

**Ans :**

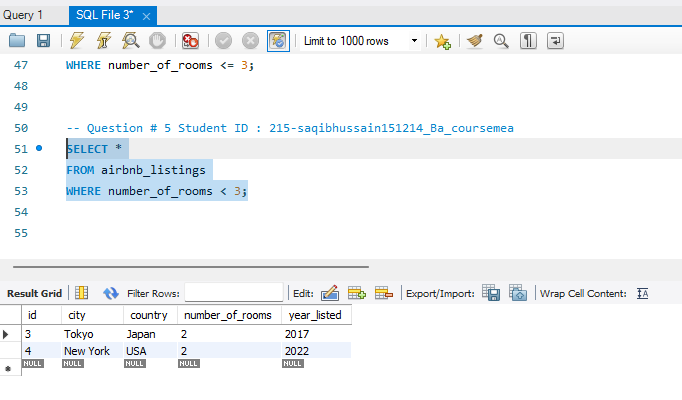
1. Get all the listings where number\_of\_rooms is exactly equal to 3.

**Ans : **

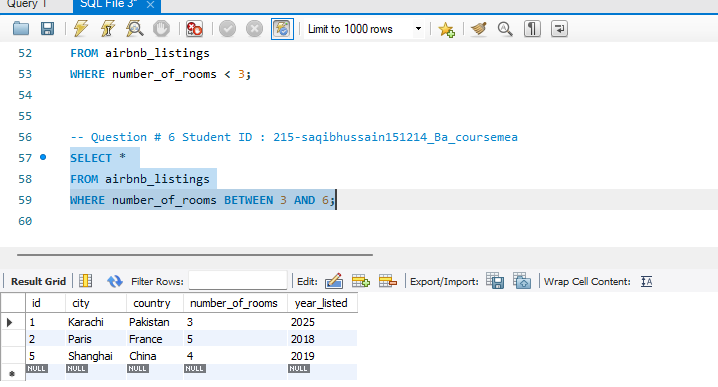
1. Get all the listings where number\_of\_rooms is lower or equal to 3.

**Ans :**

1. Get all the listings where number\_of\_rooms is lower than 3.

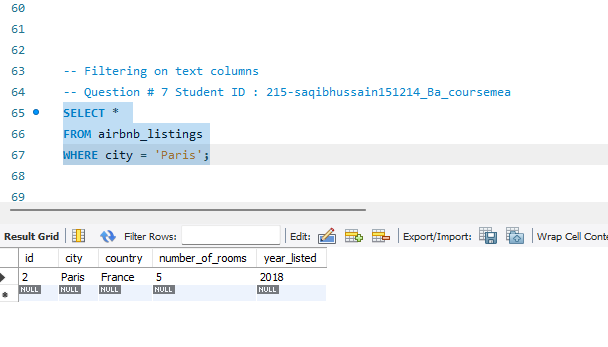
**Ans :**

1. Get all the listings with 3 to 6 rooms

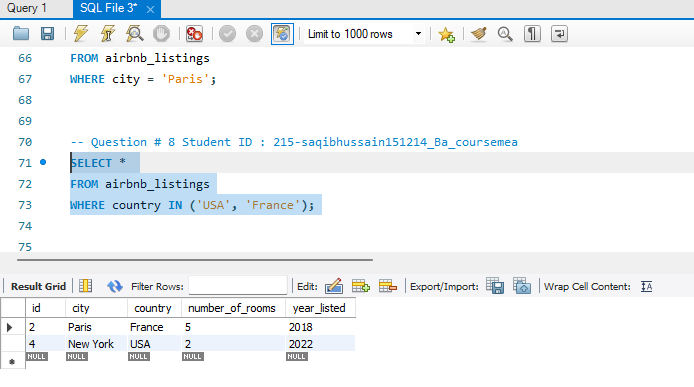


**Filtering on text columns**

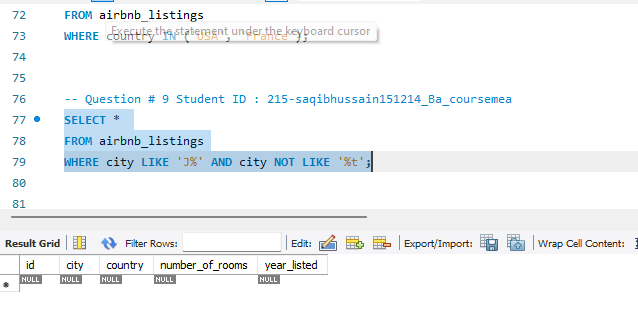
1. Get all the listings that are based in 'Paris'.

**Ans :**

1. Get the listings based in the an 'USA' ' and in ‘France'.

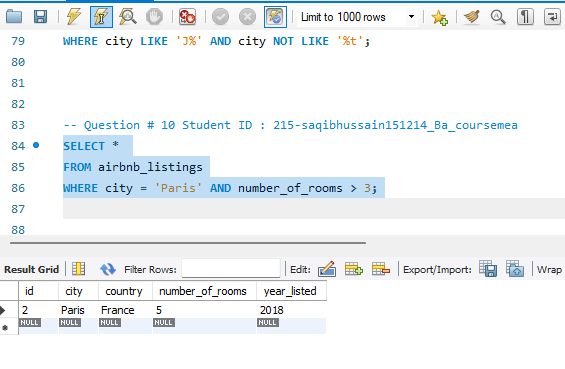
**Ans:**

1. Get all the listings where the city starts with 'j' and where the city does not end in ‘t'.

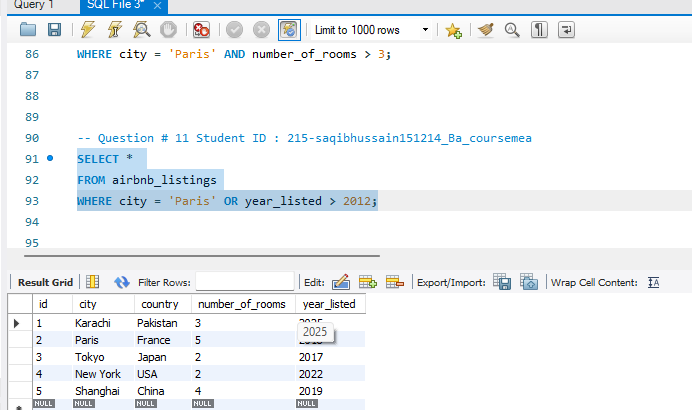
****

**Filtering on multiple columns.**

1. Get all the listings in 'Paris' where number\_of\_rooms is bigger than 3

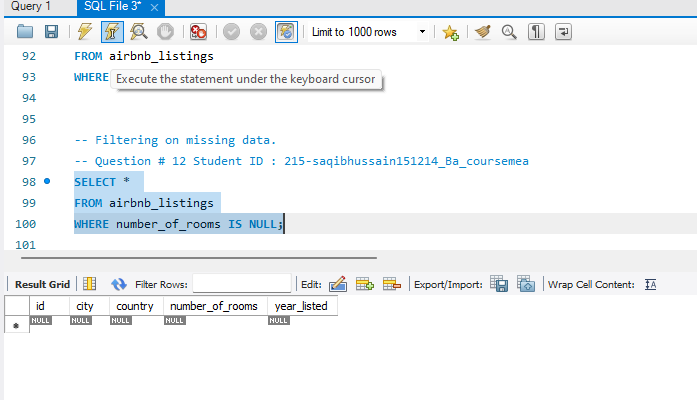
**Ans: **

1. Get all the listings in 'Paris' OR the ones that were listed after 2012.

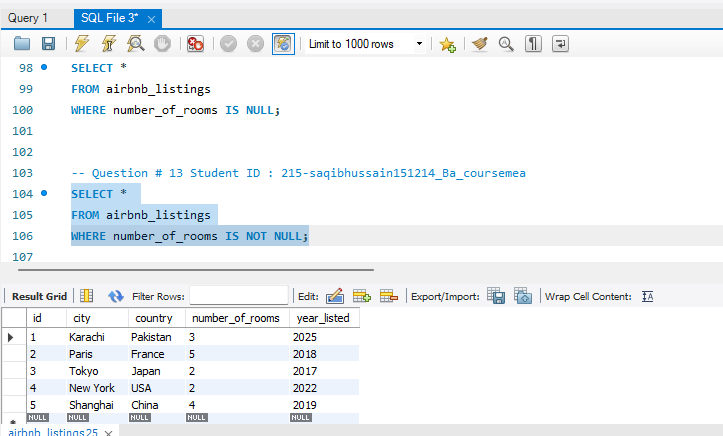


**Filtering on missing data.**

1. Return the listings where number\_of\_rooms is missing.

**Ans: **

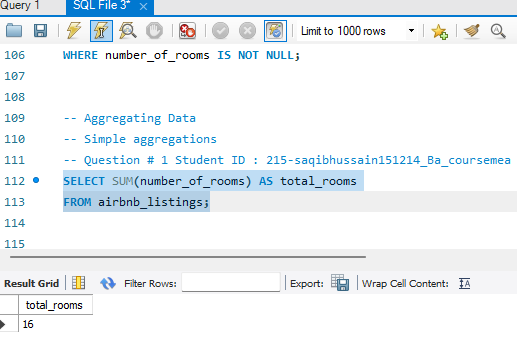
1. Return the listings where number\_of\_rooms is not missing

**Ans: **

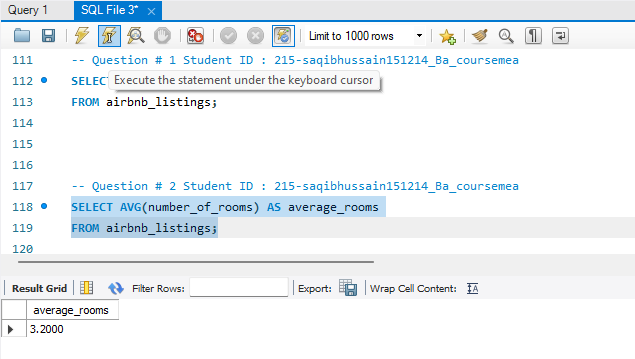
**Aggregating Data**

**Simple aggregations**

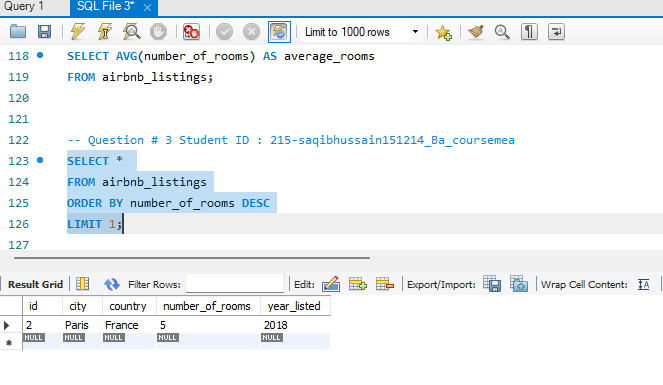
1. Get the total number of rooms available across all listings.

**Ans :**

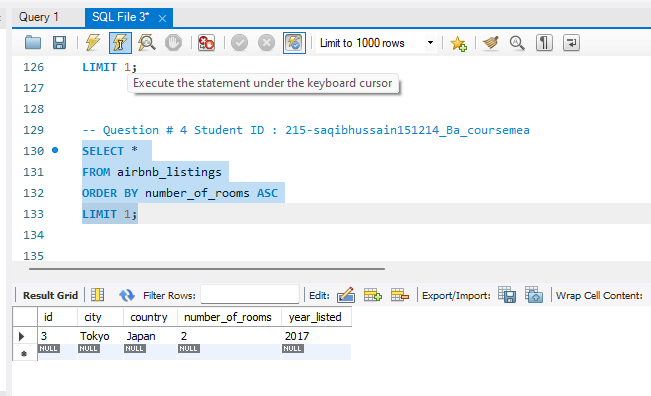
1. Get the average number of rooms per listing across all listings.

**Ans :**

1. Get the listing with the highest number of rooms across all listings.

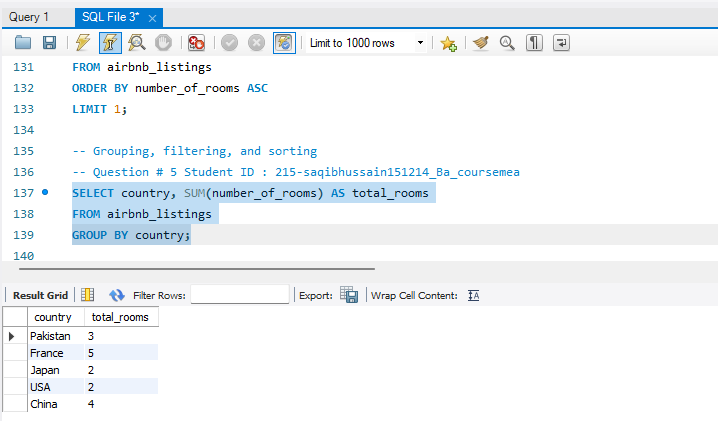
**Ans:**

1. Get the listing with the lowest number of rooms across all listings

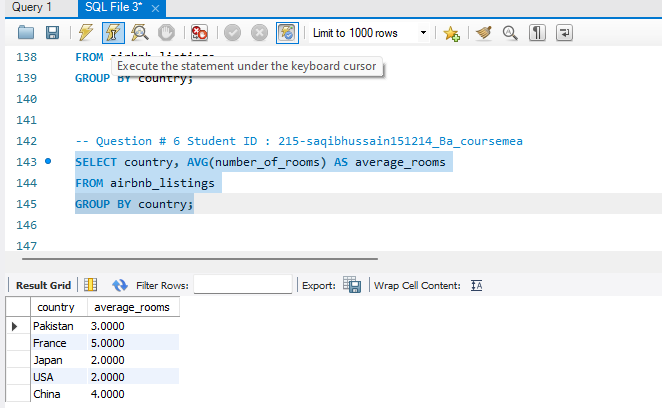
**Ans: **

**Grouping, filtering, and sorting**

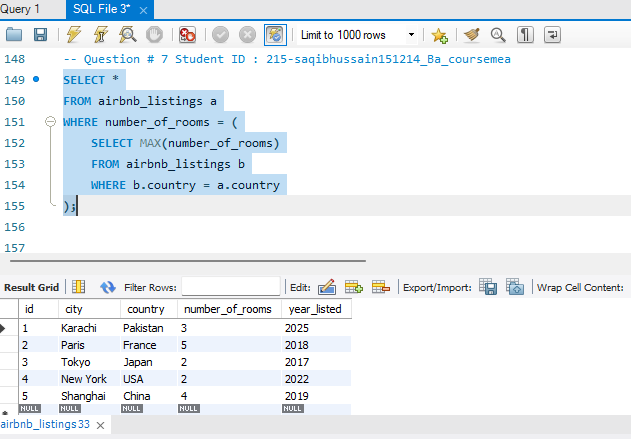
1. Get the total number of rooms for each country.

**Ans: **

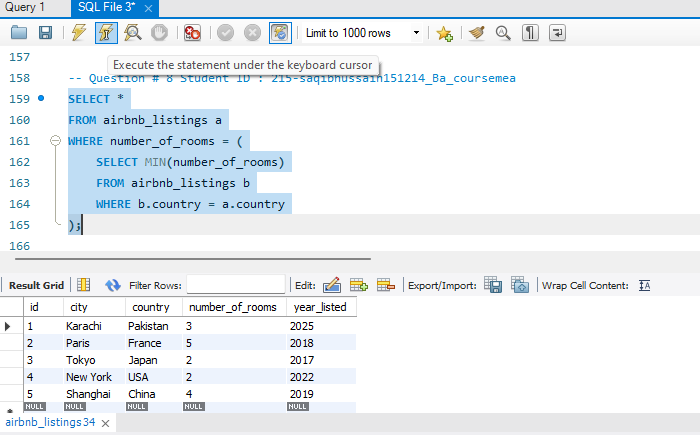
1. Get the average number of rooms for each country.

**Ans: **

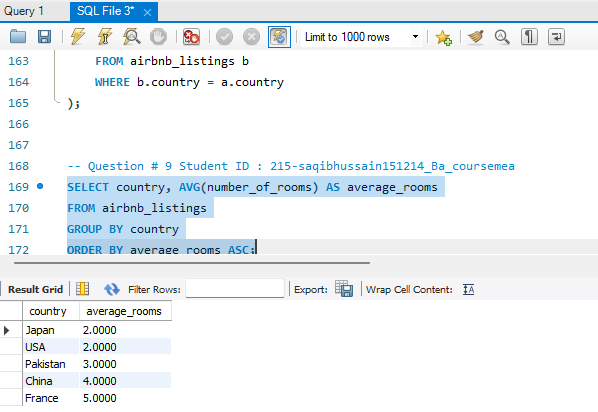
1. Get the listing with the maximum number of rooms per country.

**Ans: **

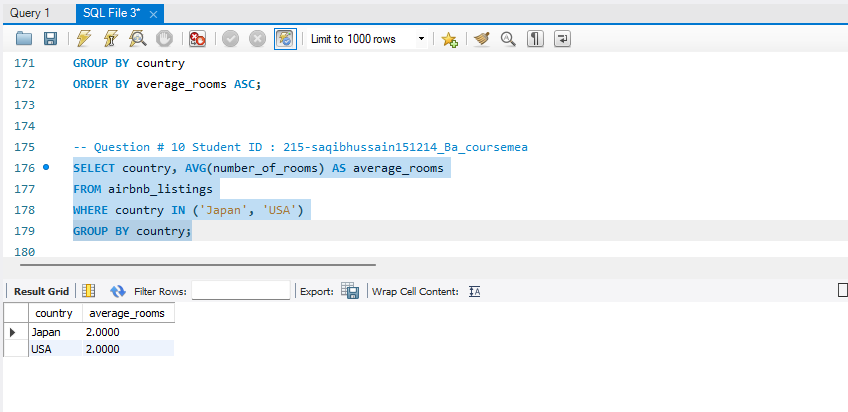
1. Get the listing with the lowest amount of rooms per country.

**Ans: **

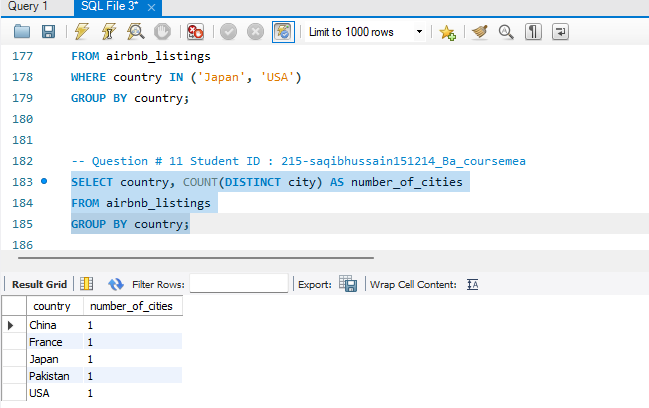
1. For each country, get the average number of rooms per listing, sorted by ascending order.

**Ans: **

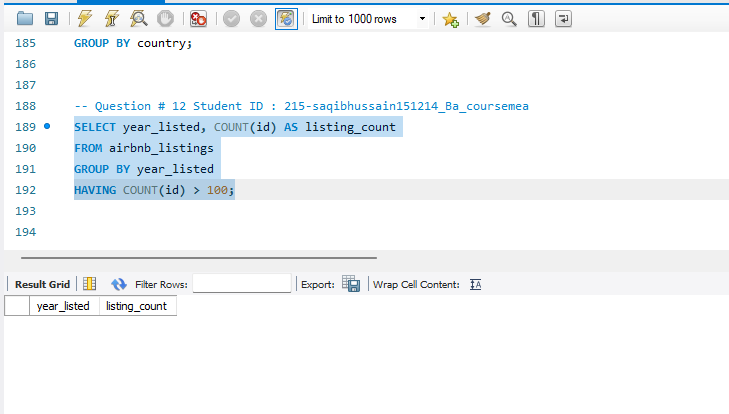
1. For Japan and the USA, get the average number of rooms per listing in each country.

**Ans: **

1. Get the number of cities per country, where there are listings.

**Ans: **

1. Get all the years where there were more than 100 ids per year

**Ans: **