1. Ave price for listing with 8 bedrooms

SELECT AVG(P.price)

FROM House\_Details H, Price P

WHERE H.listing\_id = P.listing\_id AND H.bedrooms = 8

310.08

1. Ave cleaning review score for listing with TV

SELECT AVG(S.review\_scores\_clean )

FROM Score S, Amenities A, Contains C

WHERE A.amenity\_name = "TV" AND A.amenity\_id = C.amenity\_id AND C.listing\_id = S.listing\_id

7.8709

1. Print all hosts who have available property between date 03.2019 and 09.2019

SELECT UNIQUE H.host\_id, H.host\_name

FROM Host H, Calendar C, Listing L

WHERE H.host\_id = L.host\_id AND L.listing\_id = C.listing\_id AND C.date <=2019-09-30 AND C.date>=2019-03-01 AND C.available = 1

1. Print how many listing items exist that are posted by 2 different hosts but the hosts have the same name.

SELECT COUNT (DISTINCT L.listing\_id)

FROM Listing L

WHERE L.listing\_id IN (

SELECT L1.listing\_id

FROM Host H1, Host H2, Listing L1

WHERE H1.host\_name = H2.host\_name AND

H1.host\_id <> H2.host\_id AND

L1.host\_id = H1.host\_id

UNION

SELECT L2.listing\_id

FROM Host H1, Host H2, Listing L2

WHERE H1.host\_name = H2.host\_name AND

H1.host\_id <> H2.host\_id AND

L2.host\_id = H2.host\_id )

1. Print dates VE has available accom

SELECT UNIQUE C.date

FROM Calendar C, Host H, Listing L

WHERE H.host\_id = L.host\_id AND L.listing\_id = C.listing\_id AND C.available

= 1

1. Find all hosts have only one listing

SELECT H.host\_name, H.host\_id

FROM Host H, Listing L

WHERE H.host\_id = L.host\_id

GROUP BY L.host\_id

HAVING COUNT(\*) = 1



(

SELECT AVG(P.price)

FROM Price P, Contains C, Amenities A

WHERE A.amenity\_name = "Wifi" AND A.amenity\_id = C.amenity\_id AND C.listing\_id = P.listing\_id

)

85.9847

- (

SELECT AVG(P.price)

FROM Price P

WHERE NOT EXISTs (SELECT C.listing\_id

FROM Contains C, Amenities A

WHERE A.amenity\_name = "Wifi" AND A.amenity\_id = C.amenity\_id AND C.listing\_id = P.listing\_id)

)

82.8717

1. How much more (or less) costly to rent a room with 8 beds in Berlin compared to Madrid on average

(

SELECT AVG (P1.price)

FROM Price P1, HouseDetail H\_d, Listing L, City C

WHERE C.city\_name =‘Berlin’AND C.city\_id = L.city\_id AND H\_d.beds = 8

AND H\_d.listing\_id = L.listing\_id AND H\_d.listing\_id = P1.listing\_id

)

* (

SELECT AVG (P2.price)

FROM Price P2, HouseDetail H\_d, Listing L, City C

WHERE C.city\_name =‘Madrid’AND C.city\_id = L.city\_id AND H\_d.beds = 8

AND H\_d.listing\_id = L.listing\_id AND H\_d.listing\_id = P2.listing\_id

)

1. Find top 10 most listings in spain

SELECT H.host\_id, H.host\_name

FROM Host H.

WHERE EXISTS (

SELECT TOP 10 H.host\_id, COUNT(

SELECT L.listing\_id

FROM Listing L, Host H, Country C

WHERE C.country\_name = "Spain" AND C.country\_id = L.country\_id AND L.host\_id = H.host\_id) as Count

FROM Host H

GROUP BY H.host\_id

ORDER BY Count DESC)

SELECT H.host\_id, H.host\_name

FROM host\_table H, (

SELECT L.host\_id, COUNT(L.host\_id) AS COUNT

from Listing L, Neighborhood N, City C

WHERE L.neighborhood = N.neighborhood\_id AND N.city\_id = C.city\_id AND C.country\_id = 1

group by L.host\_id

ORDER BY COUNT DESC) AS Temp

WHERE H.host\_id = Temp.host\_id

LIMIT 10

;

1. Find top 10 rated apartments in Barcelona

SELECT L.listing\_id, L.listing\_name

FROM Listing L

WHERE EXISTS (

SELECT TOP 10 L.listing\_id, L.listing\_name

FROM Listing L, Review R, City C

WHERE C.city\_name =‘Barcelona’ AND

C.listing\_id = L.listing\_id AND L.listing\_id = R.listing\_id

GROUP BY R.review\_score\_rating

ORDER BY R.review\_score\_rating DESC

)