SECTION 1:

```
CREATE KEYSPACE cubnb WITH replication= {'class':'SimpleStrategy', 'replication_factor' : 1};
                       madrianornelasr — com.docker.cli < docker exec -it a7052e2660cc /bin/sh — 127×35
        ~ — com.docker.cli • docker exec -it a7052e2660cc /bin/sh
[cqlsh> CREATE KEYSPACE cubnb WITH replication= {'class':'SimpleStrategy', 'replication_factor' : 1}; cqlsh>
2)
USE cubnb;
cqlsh:cubnb> CREATE KEYSPACE cubnb WITH replication= {'class':'SimpleStrategy', 'replication_factor' : 1};
[cqlsh:cubnb> use cubnb
         . . . 📗
CREATE TABLE cubnb.tenant(
       tenant_id int PRIMARY KEY,
       mobile BIGINT,
       password TEXT,
       tenant_name TEXT
);
 cglsh:cubnb> CREATE TABLE cubnb.tenant(
                  ... tenant_id int PRIMARY KEY,
                  ... mobile BIGINT,
                  ... password TEXT,
                  ... tenant_name TEXT
                  ...);
 cqlsh:cubnb>
CREATE TABLE cubnb.property(
       property_id int,
       property_name TEXT,
       host_id int,
       location TEXT,
       type TEXT,
       price INT,
       number_of_rooms INT,
       max_occupancy INT,
       number_of_reviews INT,
       amenities set<TEXT>,
       status TEXT,
       primary key(property_id, host_id)
```

```
CREATE TABLE cubnb.booking(
      booking id int,
      property_id int,
      total_occupancy int,
      tenant id int,
      status TEXT,
     no_of_days int,
     start_date DATE,
      end date DATE,
      primary key(booking_id, property_id, tenant_id)
);
 cqlsh:cubnb> CREATE TABLE cubnb.booking(
            ... booking_id int,
            ... property_id int,
            ... total_occupancy int,
            ... tenant_id int,
            ... status TEXT,
            ... no_of_days int,
            ... start_date DATE,
            ... end_date DATE,
            ... primary key(booking_id, property_id, tenant_id)
 cqlsh:cubnb>
```

Put cubnb-dataset.text

```
cqlsh:cubnb>
cqlsh:cubnb> select count(*) from cubnb.property;
 count
   200
(1 rows)
Warnings :
Aggregation query used without partition key
cqlsh:cubnb> select count(*) from cubnb.booking;
 count
  1500
(1 rows)
Warnings :
Aggregation query used without partition key
cqlsh:cubnb> select count(*) from cubnb.tenant;
 count
   100
(1 rows)
Warnings :
Aggregation query used without partition key
cqlsh:cubnb>
```

SECTION 2

1. Get the booking_id, property_id,tenant_id, and number of days a property is booked in the month of Feb '2022 for tenant-id 80855.

```
SELECT booking_id, property_id, tenant_id, no_of_days
FROM cubnb.booking
WHERE tenant_id=80855 AND
start_date >= '2022-02-01' AND start_date <= '2022-02-28'
ALLOW FILTERING;
```

```
cqlsh:cubnb> SELECT booking_id, property_id, tenant_id, no_of_days
        ... FROM cubnb.booking
        ... WHERE tenant_id=80855 AND
        ... start_date >= '2022-02-01' AND start_date <= '2022-02-28'
        ... ALLOW FILTERING;
 booking_id | property_id | tenant_id | no_of_days
                     72
      2471
                              80855
                                               1
      1332
                              80855
                     133
                                              15
      1753
                     154
                               80855
                                              30
                     79
                               80855
      2678
                                              14
                      53
                               80855
      2252
                               80855
      1441
                      42
                                              30
(6 rows)
cqlsh:cubnb>
```

2. Get the count of properties whose reviews are more than 200.

SELECT COUNT(*) FROM cubnb.property WHERE number_of_reviews > 200 ALLOW FILTERING;

```
[cqlsh:cubnb> SELECT COUNT(*) FROM cubnb.property WHERE number_of_reviews > 200 ALLOW FILTERING;

count
------
45

(1 rows)

Warnings :
Aggregation query used without partition key
```

3. List all properties from "Brooklyn" location with type as apartment and have status as available.

```
SELECT property_id, property_name
... FROM cubnb.property
... WHERE location = 'Brooklyn' AND status = 'available' AND type = 'Apartment'
... ALLOW FILTERING;
```

```
cqlsh:cubnb> SELECT property_id, property_name
         ... FROM cubnb.property
         ... WHERE location = 'Brooklyn' AND status = 'available' AND type = 'Apartment'
         ... ALLOW FILTERING;
property_id | property_name
                   Fully Furnished Basement Apartment
         140
                    Huge Private Floor at The Waverly
         94
                     2-bed brownstone duplex + garden
         152
                   Lg Rm in Historic Prospect Heights
         54
                       Greenpoint Place...Has It All!
         75
                                BLUE TRIM GUEST HOUSE
         179
                  Greenwich Village Stylish Apartment
                          Prime Location in Manhattan
         196
              MAISON DES SIRENES1, bohemian apartment
          25
(9 rows)
cqlsh:cubnb> 🗌
```

4.

a) Get all the properties which are handled by host_id 1029.

SELECT property_id, property_name

- ... FROM cubnb.property
- ... WHERE host_id = 1029
- ... ALLOW FILTERING;

```
cqlsh:cubnb> SELECT property_id, property_name
         ... FROM cubnb.property
         ... WHERE host_id = 1029
         ... ALLOW FILTERING;
 property_id | property_name
               Entire apartment in central Brooklyn neighborhood.
          46
           8
                                    Large Furnished Room Near Bway
         122
                                  3 Story Town House in Park Slope
           7
                                                   BlissArtsSpace!
                                 Light-filled classic Central Park
          97
                 Charming and Cozy midtown loft any WEEK ENDS !!!
         165
(6 rows)
cglsh:cubnb>
```

- b) Add new amenity 'Heater' to the above results(in a single query).

 UPDATE cubnb.property SET amenities = amenities + {'Heater'} WHERE property_id in (46, 8, 122, 7, 97, 165) AND host_id = 1029:
 - c) Show the updated results from part b query.

5.

a) Add your details in the tenant table with tenant_id as 3287

```
INSERT INTO cubnb.tenant(tenant_id, mobile, password, tenant_name)
            VALUES (
                  3287,
                  3034228869.
                  'passwordPlaceHolder999',
                  'Adrian&John'
cqlsh:cubnb> INSERT INTO cubnb.tenant(tenant_id, mobile, password, tenant_name)
         ... VALUES (
         ... 3287,
         ... 3034228869,
         ... 'passwordPlaceHolder999',
         ... 'Adrian&John'
         ...);
cqlsh:cubnb> select * from cubnb.tenant WHERE tenant_id = 3287;
 tenant_id | mobile
                         password
                                                   tenant_name
      3287 | 3034228869 | passwordPlaceHolder999 | Adrian&John
(1 rows)
```

 b) Change the password of the tenant_id 3287 from the existing to 'password@123' and display the change

```
UPDATE cubnb.tenant

SET password = 'password@123'

WHERE tenant_id = 3287;
```

```
[cqlsh:cubnb> select * from cubnb.tenant WHERE tenant_id = 3287;
 tenant_id | mobile
                          password
                                                   tenant_name
      3287
             3034228869 | passwordPlaceHolder999
                                                  Adrian&John
(1 rows)
cqlsh:cubnb> UPDATE cubnb.tenant SET password = 'password@123' WHERE tenant_id = 3287;
cqlsh:cubnb> select * from cubnb.tenant WHERE tenant_id = 3287;
 tenant_id | mobile
                          password
                                        tenant_name
             3034228869 | password@123 | Adrian&John
(1 rows)
cqlsh:cubnb>
```

6. Remove an amenity 'Garden View' for host_id 1012 and property_id 110 and display the results.

DELETE "amenities"['GardenView'] FROM cubnb.property WHERE host_id = 1012 AND property_id = 110; cqlsh:cubnb> SELECT property_id, property_name, amenities FROM cubnb.property WHERE host_id = 1012 AND property_id = 110 ALLOW FILTERING;

```
| cqlsh:cubmb> DELETE "amenities" ('GardenView') FROM cubmb.property WHERE host_id = 1812 AND property_id = 118; | cqlsh:cubmb> SELECT property_id, property_name, amenities FROM cubmb.property WHERE host_id = 1812 AND property_id = 118 ALLOW FILTERING; | property_id | property_id | property_id | property_name | amenities | ameni
```

=

7. List the properties which have a 'BeachView' in it's amenities and whose rent price is more than 1000.

```
SELECT property_id, property_name, location, type, price FROM cubnb.property
WHERE amenities CONTAINS 'BeachView'
AND price >= 1000
ALLOW FILTERING;
```

```
cqlsh:cubnb> SELECT property_id, property_name, location, type, price
         ... FROM cubnb.property
         ... WHERE amenities CONTAINS 'BeachView'
         ... AND price >= 1000
         ... ALLOW FILTERING;
 property_id | property_name
                                                                    | location
                                                                                  tvpe
                                                                                                 price
         110
               Sunny 2-story Brooklyn townhouse w deck and garden
                                                                         Queens
                                                                                     Apartment
                                                                                                   1512
         135
                                            Most Central Location!
                                                                       Brooklyn
                                                                                  Private Room
                                                                                                   1042
                       Private room Great Deal at Lower East Side
                                                                      Manhattan
                                                                                                   1512
          85
                                                                                  Private Room
          81
                                         Cozy 2 BR in Williamsburg
                                                                         Queens
                                                                                  Private Room
                                                                                                   1512
                Large Parlor Room, Landmark Home 1 block to PRATT
          93
                                                                                                   1042
                                                                         Queens
                                                                                  Private Room
                             Private, Large and Sunny 1BR w/WandD
         163
                                                                         Queens
                                                                                  Private Room
                                                                                                   1512
         165
                 Charming and Cozy midtown loft any WEEK ENDS !!!
                                                                      Manhattan
                                                                                  Private Room
                                                                                                   1042
(7 rows)
```

8. Get the number of highest occupancy of properties for 8 rooms.

SELECT MAX(max_occupancy) FROM cubnb.property WHERE number_of_rooms = 8 ALLOW FILTERING;