## CSCI3287\_Homeowrk6

# Chengming Li

• DATA Import

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

### • SECTION 1

3.

### **CREATE TABLE IF NOT EXISTS cubnb.tenant(**

tenant\_id int PRIMAR KEY, mobile bigint, password text, tenant\_name text);

cqlsh:cubnb> CREATE TABLE IF NOT EXISTS cubnb.tenant(tenant\_id int PRIMARY KEY, mobile bigint, password text, tenant\_nam
e text);

4.

## CREATE TABLE IF NOT EXISTS 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)));

```
<new_column_name>
                                       PRIMARY
          ... status text,
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
             PRIMARY KEY((property_id, host_id)));
cqlsh:cubnb>
```

```
CREATE TABLE IF NOT EXISTS cubnb.booking(booking_id int, property_id int, total_occupancy int, tenant_id int, status text, no_of_days int,
```

PRIMARY KEY((booking\_id, property\_id, tenant\_id)));

start\_date date, end date date,

```
<new_column_name>
                                       PRIMARY
         ... start_date date,
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
         ... end_date date,
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
                   <new_column_name>
                                       PRIMARY
             PRIMARY KEY((booking_id, property_id, tenant_id)));
cqlsh:cubnb>
```

### • SECTION 2

SELECT booking\_id, property\_id, tenant\_id, no\_of\_days FROM booking
WHERE tenant\_id = 80855 AND
start\_date >= '2022-02-01' AND end\_date <= '2022-02-28'

#### **ALLOW FILTERING:**

2.

### **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)
```

3.

SELECT property\_name, location, type, status FROM cubnb.property WHERE location = 'Brooklyn' AND type = 'Apartment' AND status = 'available' ALLOW FILTERING;

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

4.

```
SELECT property_name, host_id, amenities
FROM cubnb.property
WHERE host_id = 1029
ALLOW FILTERING;

UPDATE cubnb.property
SET amenities = amenities + {'Heater'}
WHERE host_id = 1029
AND
property_id IN (8, 46, 165, 122, 7, 97);
```

```
Large Furnished Room Near Bway | 1829 |
                                                                                                  ['Free Parking', 'GardenView', 'Microwave Oven', 'Pool', 'Smoke Alarm', 'Washer', 'WiFi'
 Entire apartment in central Brooklyn neighborhood.
                3 Story Town House in Park Slope | 1829 | {'Air Conditioning', 'BeachView', 'Free Parking', 'GardenView', 'Microwave Oven', 'Pool', 'Security Camera', 'Smoke Alarm', 'Washer
               Light-filled classic Central Park | 1029 |
 (6 rows)
cqlsh:cubnb>
 cqlsh:cubnb> UPDATE cubnb.property
                        ... SET amenities = amenities + {'Heater'}
                        ... WHERE host_id = 1029
                        ... AND
                        ... property_id IN (8, 46, 165, 122, 7, 97);
 cqlsh:cubnb> SELECT property_name, host_id, amenities
       ... FROM cubnb.property
        ... WHERE host_id = 1029
       ... ALLOW FILTERING;
                                                                                               {'Free Parking', 'GardenViet, 'Heater', 'Microwave Oven', 'Pool', 'Smoke Alarm', 'Washer',
                 Large Furnished Room Near Bway | 1829 |
WiFi'
                                                                                      {'Air Conditioning', 'BeachView', 'Free Parking', Heater', 'Microwave Oven', 'Smoke Alarm', 'Washer',
 Entire apartment in central Brooklyn neighborhood. | 1829 |
                                                                                      {'Air Conditioning', 'BeachView', 'Free Parking', 'Heater', 'Microwave Oven', 'Smoke Alarm', 'Washer',
 Charming and Cozy midtown loft any WEEK ENDS !!! | 1029 |
WiFi'}
                3 Story Town House in Park Slope | 1829 | {'Air Conditioning', 'BeachViem', 'Free Parking', 'GardenViem', 'Heater', 'Micromave Oven', 'Pool', 'Security Camera', 'Smoke Alarm', 'Washer',
WiFi'
                             BlissArtsSpace! | 1829 |
                                                                                               {'Free Parking', 'GardenView', 'eater', 'Microwave Oven', 'Pool', 'Smoke Alarm', 'Washer',
WiFi'
                                                                                                                                'Microwave Oven', 'Security Camera', 'Smoke Alarm',
               Light-filled classic Central Park | 1029 |
                                                                                          {'Air Conditioning', 'Free Parking',
WiFi'}
(6 rows)
```

INSERT INTO tenant (tenant\_id, mobile, password, tenant\_name) VALUES(3287, 3033058712, '3033058712', 'random\_tenant');

#### **UPDATE** tenant

5.

SET password = 'password@123'

**WHERE** tenant\_id = 3287:

6.

UPDATE property
SET amenities = amenities - {'GardenView'}
WHERE host\_id = 1012 AND
property\_id = 110;

```
(1 rows)

cqlsh:cubnb> UPDATE property

... SET amenities = amenities - {'GardenView'}

... WHERE host_id = 1012 AND

... property_id = 110;

cqlsh:cubnb> SELECT amenities FROM property WHERE host_id = 1012 AND property_id = 110;

amenities

{'Air Conditioning', 'BeachView', 'Free Parking', 'Microwave Oven', 'Pool', 'Security Camera', 'Smoke Alarm', 'Washer', 'WiFi'}

(1 rows)

cqlsh:cubnb> |
```

7.

SELECT property\_name, amenities,price FROM property WHERE amenities CONTAINS 'BeachView' AND price > 1000

#### **ALLOW FILTERING;**

```
cqlsh:cubnb> SELECT property_name, amenities,price
        ... FROM property
        ... WHERE amenities CONTAINS 'BeachView' AND
        ... price > 1000
        ... ALLOW FILTERING;
                            Most Central Location!
                                                                                               {'Air Conditioning', 'BeachView', 'Free Parking'
                                                                                                                                                'Microwave Oven', 'Smoke Alarm', 'Washer',
                                                                                                                                                                                           'WiFi'
        Private room Great Deal at Lower East Side | {'Air Conditioning', 'BeachView', 'Free Parking', 'GardenView', 'Microwave Oven', 'Pool'
                                                                                                                                               'Security Camera'
                                                                                                                                                                                           'WiFi'
  Charming and Cozy midtown loft any WEEK ENDS !!!
                                                                                   {'Air Conditioning', 'BeachView', 'Free Parking', 'Heater',
                                                                                                                                                'Microwave Oven', 'Smoke Alarm',
                                                                                                                                                                                           'WiFi'
  Large Parlor Room, Landmark Home 1 block to PRATT | {'Air Conditioning', 'BeachViem', 'Free Parking', 'GardenViem', 'Micromave Oven', 'Pool', 'Security Camera', 'Smoke Alarm',
                                                                                                                                                                                            'WiFi'
              Private, Large and Sunny 1BR w/WandD
                                                                                              {'Air Conditioning', 'BeachView', 'Free Parking'
                                                                                                                                                'Microwave Oven', 'Smoke Alarm'
                                                                                                                                                                                           'WiFi'
 Sunny 2-story Brooklyn townhouse w deck and garden
                                                                   {'Air Conditioning', 'BeachView', 'Free Parking', 'Microwave Oven', 'Pool'
                                                                                                                                               'Security Camera',
                                                                                                                                                                  'Smoke Alarm'
                                                                                                                                                                                           'WiFi'
                         Cozy 2 BR in Williamsburg | {'Air Conditioning', 'BeachView', 'Free Parking', 'GardenView', 'Micromave Oven', 'Pool', 'Security Camera', 'Smoke Alarm',
                                                                                                                                                                                           'WiFi'} | 1512
(7 rows)
cqlsh:cubnb>
```

8.

SELECT MAX(max\_occupancy)
FROM property
WHERE number\_of\_rooms = 8
ALLOW FILTERING;

SELECT COUNT(\*)
FROM property
WHERE number\_of\_rooms = 8 AND
max\_occupancy = 16
ALLOW FILTERING;

```
cqlsh:cubnb> SELECT MAX(max_occupancy)
         ... FROM property
         ... WHERE number_of_rooms = 8
         ... ALLOW FILTERING;
                  16
(1 rows)
Warnings :
Aggregation query used without partition key
cqlsh:cubnb> SELECT COUNT(*)
         ... FROM property
         ... WHERE number_of_rooms = 8 AND
         ... max_occupancy = 16
         ... ALLOW FILTERING;
(1 rows)
Warnings :
Aggregation query used without partition key
```