1. CREATE TABLE customer (
custno varchar(10) NOT NULL,
custname varchar(30) NOT NULL,
address varchar(30) NOT NULL,
Internal varchar(1) NOT NULL,
contact varchar(30) NOT NULL,
phone varchar(10) NOT NULL,
city varchar(15) NOT NULL,
state varchar(2) NOT NULL,
zip varchar(5) NOT NULL,
CONSTRAINT custno\_ PRIMARY KEY (custno)

);



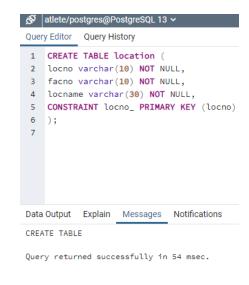
Name Owner Partitioned table? Comment customer postgres

2. CREATE TABLE facility (
facno varchar(10) NOT NULL,
facname varchar(30) NOT NULL,
CONSTRAINT facno\_ PRIMARY KEY (faci
);





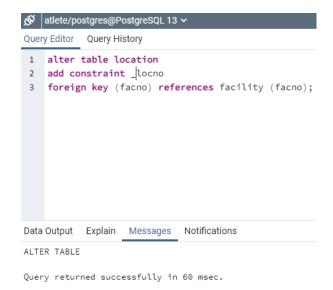
3. CREATE TABLE location (
locno varchar(10) NOT NULL,
facno varchar(10) NOT NULL,
locname varchar(30) NOT NULL,
CONSTRAINT locno\_ PRIMARY KEY (locno)
);



Name	Owner	Partitioned table?	Comment
customer	postgres	False	
facility	postgres	False	
location	postgres	False	

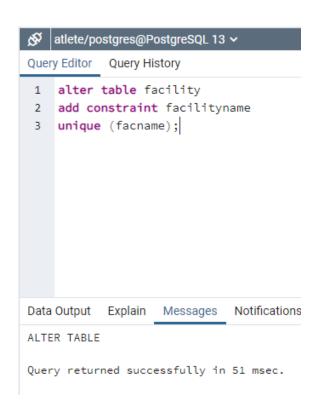
4. Hanya ada satu tabel yang saling berhubungan. Table yang berhubungan adalah tabel facility dengan tabel location dimana table facility merupakan parent dari tabel location, karna tabel location mengambil data dari tabel facility.

5. alter table location
add constraint \_locno
foreign key (facno) references facility (facno);

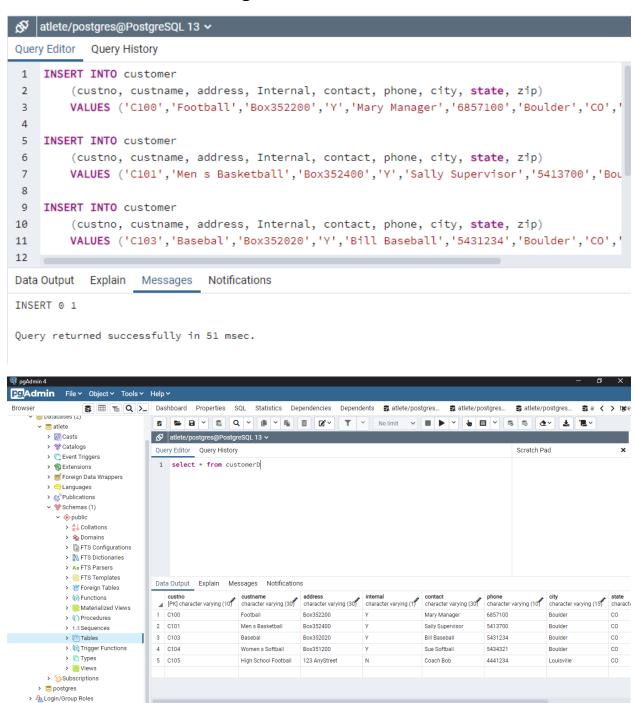


6. yang saya ketahui, null tidak boleh digunakan dalam foreign key. Saya ingin menjelaskan mengapa foreign key mungkin perlu nol atau mungkin perlu unik atau tidak unik. Pertama, ingat foreign key hanya mengharuskan nilai di bidang itu harus ada terlebih dahulu di tabel yang berbeda (tabel induk). Itu semua adalah definisi FK. Null menurut definisi bukanlah nilai. Null artinya kita belum tahu berapa nilainya.

alter table facility
 Add constraint facilityname
 Unique (facname);



## **Pengisian Data Customer**



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□ Links

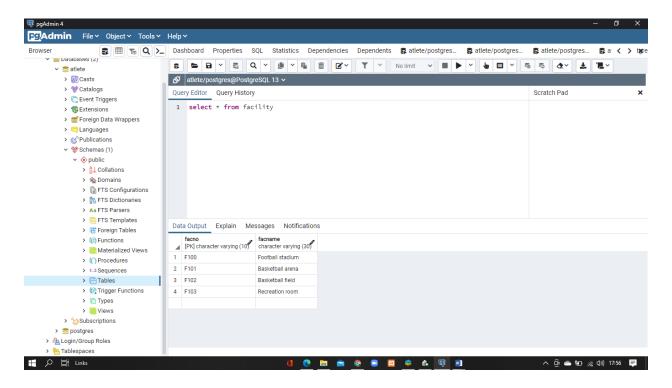
## **Pengisian Data Facility**

```
    atlete/postgres@PostgreSQL 13 
    ✓

Query Editor
            Query History
    INSERT INTO facility
 1
 2
         (facno, facname)
 3
         VALUES ('F100', 'Football stadium');
 4
 5
 6
    INSERT INTO facility
 7
         (facno, facname)
 8
         VALUES ('F101', 'Basketball arena');
 9
    INSERT INTO facility
10
         (facno, facname)
11
         VALUES ('F102', 'Basketball field');
12
           Explain Messages
                                Notifications
Data Output
```

INSERT 0 1

Query returned successfully in 43 msec.



## **Pengisian Data Location**

```
atlete/postgres@PostgreSQL 13 >
Query Editor
            Query History
22
         (locno, facno, locname)
23
         VALUES ('L104', 'F100', 'Ticket Booth');
24
25
    INSERT INTO location
26
         (locno, facno, locname)
27
         VALUES ('L105', 'F101', 'Gate');
28
29
30
31
    INSERT INTO location
         (locno, facno, locname)
32
         VALUES ('L106', 'F100', 'Pedestrian gate');
33
Data Output
            Explain
                     Messages
                               Notifications
```

INSERT 0 1

Query returned successfully in 48 msec.

