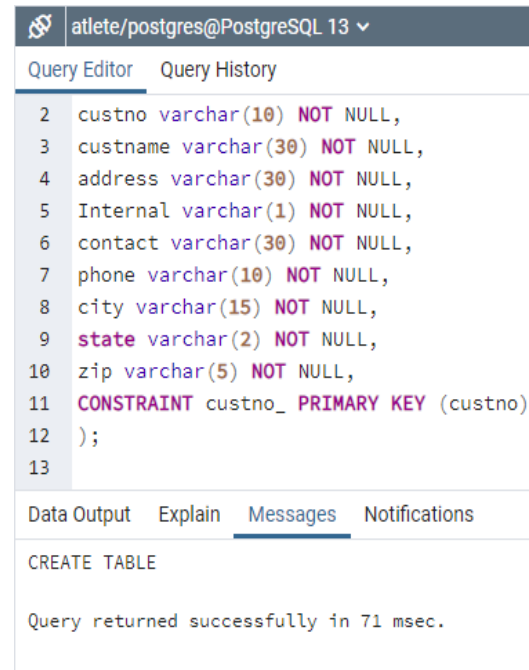Nama : Mukhsalmina
Nim : 181402043
Kom : C

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)

);

atlete/postgres@PostgreSQL 13 ∨

Query Editor   Query History

```
2   custno varchar(10) NOT NULL,
3   custname varchar(30) NOT NULL,
4   address varchar(30) NOT NULL,
5   Internal varchar(1) NOT NULL,
6   contact varchar(30) NOT NULL,
7   phone varchar(10) NOT NULL,
8   city varchar(15) NOT NULL,
9   state varchar(2) NOT NULL,
10  zip varchar(5) NOT NULL,
11  CONSTRAINT custno_ PRIMARY KEY (custno)
12  );
13
```

Data Output   Explain   Messages   Notifications
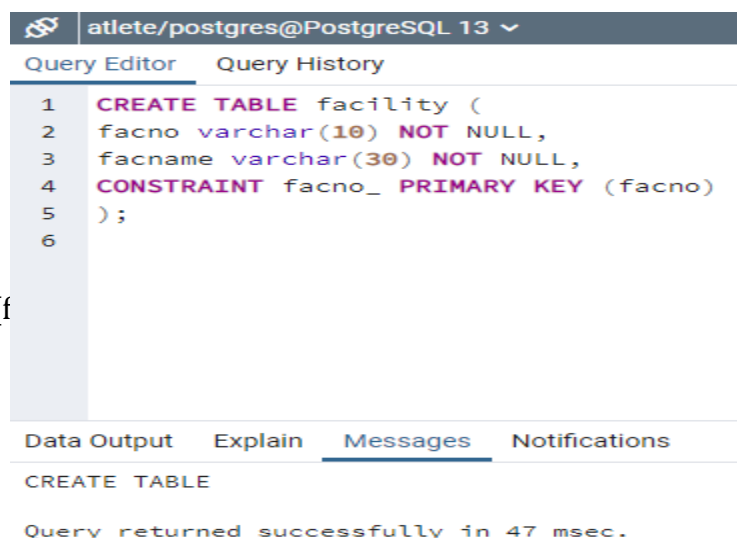
CREATE TABLE

Query returned successfully in 71 msec.

	Name	Owner	Partitioned table?	Comment
☐	customer	postgres	False	

2.   CREATE TABLE facility

(facno varchar(10) NOT

NULL, facname varchar(30)

NOT NULL,

CONSTRAINT facno_ PRIMARY KEY (f

);

atlete/postgres@PostgreSQL 13 ∨

Query Editor   Query History

```
1   CREATE TABLE facility (
2   facno varchar(10) NOT NULL,
3   facname varchar(30) NOT NULL,
4   CONSTRAINT facno_ PRIMARY KEY (facno)
5   );
6
```

Data Output   Explain   Messages   Notifications

CREATE TABLE

Query returned successfully in 47 msec.

	Name	Owner	Partitioned table?	Comment
☐	customer	postgres	False	
☑	facility	postgres	False	

3.   CREATE TABLE

location (locno varchar(10)

NOT NULL, facno varchar(10)

NOT NULL, locname

varchar(30) NOT NULL,

CONSTRAINT locno_ PRIMARY KEY (locno)

);

```
atlete/postgres@PostgreSQL 13 ⌄
Query Editor   Query History
1  CREATE TABLE location (
2  locno varchar(10) NOT NULL,
3  facno varchar(10) NOT NULL,
4  locname varchar(30) NOT NULL,
5  CONSTRAINT locno_ PRIMARY KEY (locno)
6  );
7
```

Data Output   Explain   Messages   Notifications

CREATE TABLE

Query returned successfully in 54 msec.

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 facilitydengan tabel location dimana table facility merupakan parent dari tabel location, karna tabel location mengambil data dari tabel facility.
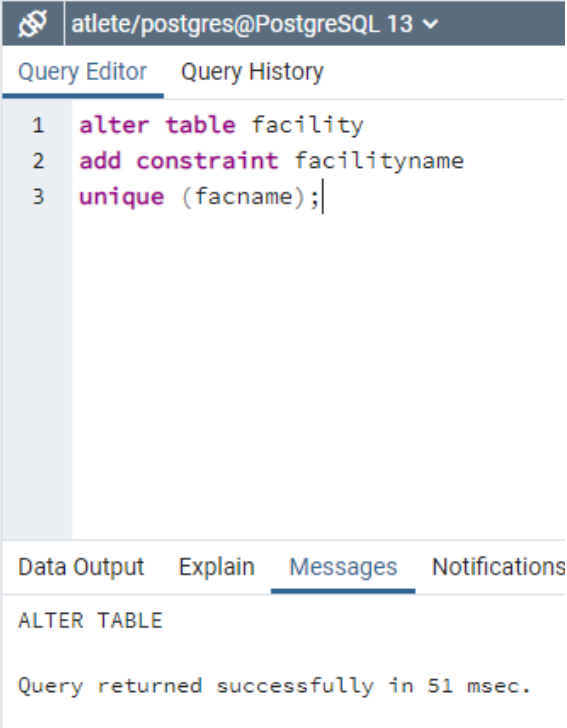
5. alter table

locationadd

constraint _locno

foreign key (facno) references facility (facno);

```
atlete/postgres@PostgreSQL 13 ⌄
Query Editor   Query History
1  alter table location
2  add constraint _locno
3  foreign key (facno) references facility (facno);
```

Data Output   Explain   Messages   Notifications

ALTER TABLE

Query returned successfully in 60 msec.

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, ingatforeign 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.

7.   alter table facility

        Add constraint

        facilitynameUnique

        (facname);

atlete/postgres@PostgreSQL 13 ∨

Query Editor   Query History

```
1  alter table facility
2  add constraint facilityname
3  unique (facname);
```

Data Output   Explain   Messages   Notifications

ALTER TABLE

Query returned successfully in 51 msec.

Pengisian Data
Customer

Pengisian Data Facility


```
atlete/postgres@PostgreSQL 13 ∨

Query Editor    Query History

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

Data Output   Explain   Messages   Notifications

```
INSERT 0 1

Query returned successfully in 43 msec.
```


	facno [PK] character varying (10)	facname character varying (30)
1	F100	Football stadium
2	F101	Basketball arena
3	F102	Basketball field
4	F103	Recreation room
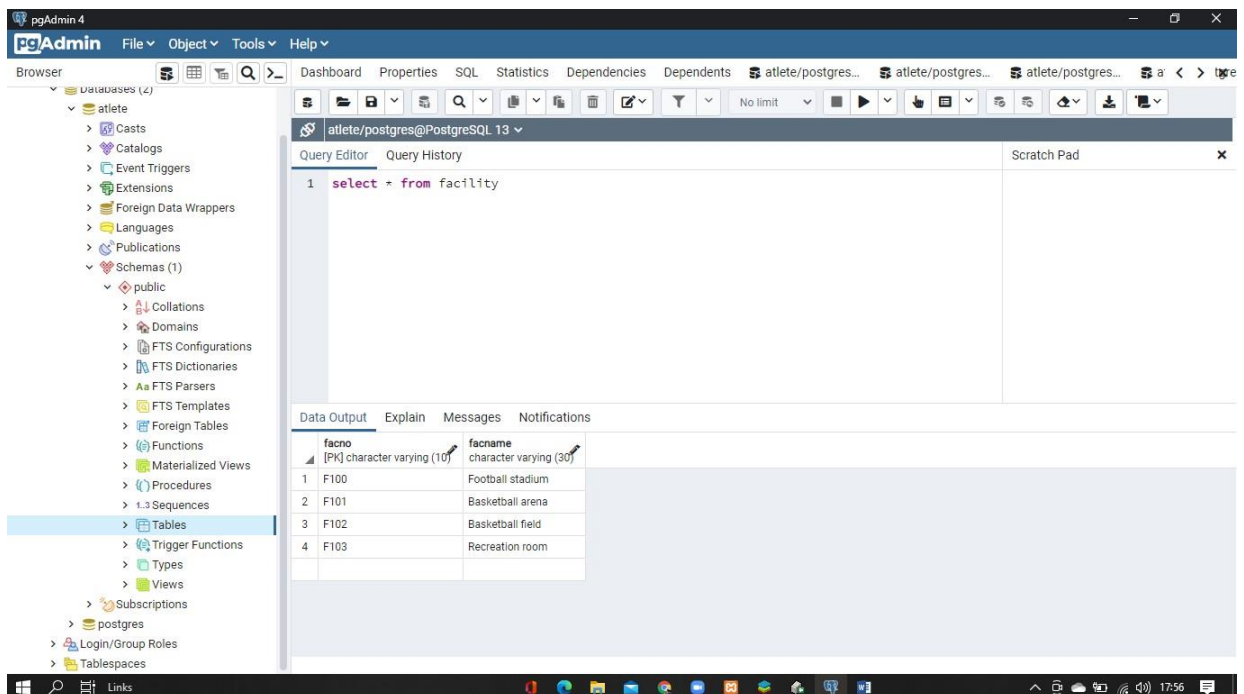
Pengisian Data
Location


```
atlete/postgres@PostgreSQL 13 ✓

Query Editor    Query History

22         (locno, facno, locname)
23         VALUES ('L104', 'F100', 'Ticket Booth');
24
25
26    INSERT INTO location
27         (locno, facno, locname)
28         VALUES ('L105', 'F101', 'Gate');
29
30
31    INSERT INTO location
32         (locno, facno, locname)
33         VALUES ('L106', 'F100', 'Pedestrian gate');

Data Output   Explain   Messages   Notifications

INSERT 0 1

Query returned successfully in 48 msec.
```


	locno [PK] character varying (10)	facno character varying (10)	locname character varying (30)
1	L100	F100	Locker room
2	L101	F100	Plaza
3	L102	F100	Vehicle gate
4	L103	F101	Locker room
5	L104	F100	Ticket Booth
6	L105	F101	Gate
7	L106	F100	Pedestrian gate