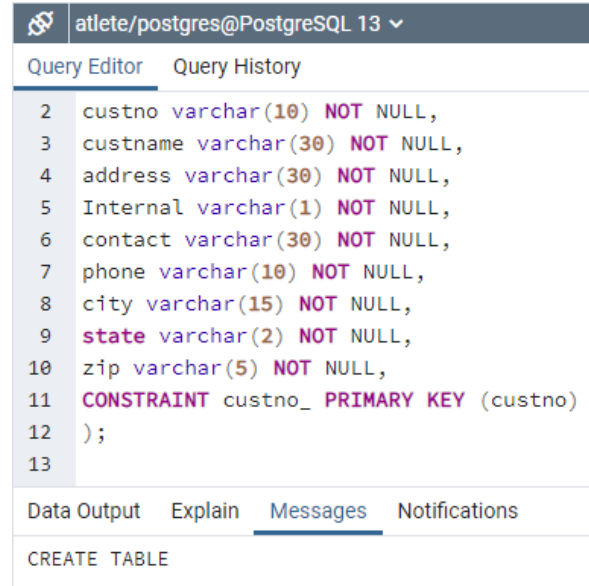Nama   : Fikri Fadhlillah

Nim   : 181402117

Kom   : C

Mata Kuliah : Data Warehouse dan Bisnis Intelligence

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,
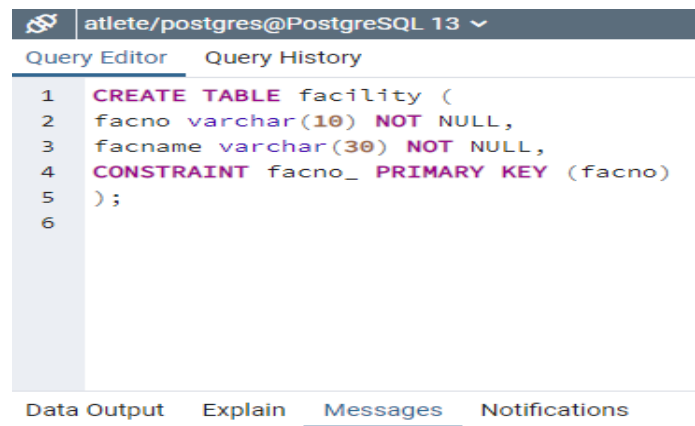
CONSTRAINT custno_ PRIMARY KEY (custno)

);

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

	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 (facno)

);

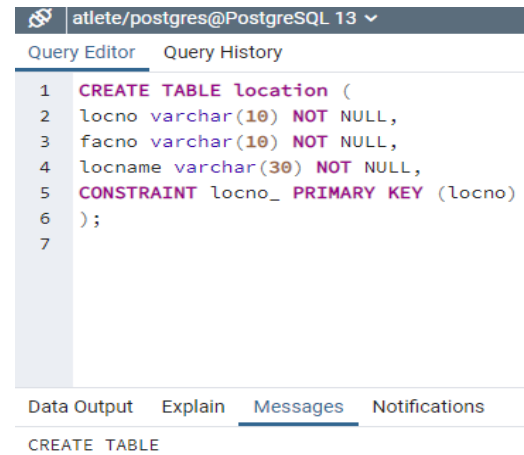atlete/postgres@PostgreSQL 13 ∨

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

	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

	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. Null tidak boleh digunakan dalam foreign key. Disini 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.

7.
alter table facility

add constraint facilityname

unique (facname);

Pengisian Data
Customer

atlete/postgres@PostgreSQL 13 ∨

Query Editor   Query History

```
1   INSERT INTO customer
2       (custno, custname, address, Internal, contact, phone, city, state, zip)
3       VALUES ('C100','Football','Box352200','Y','Mary Manager','6857100','Boulder','CO','
4
5   INSERT INTO customer
6       (custno, custname, address, Internal, contact, phone, city, state, zip)
7       VALUES ('C101','Men s Basketball','Box352400','Y','Sally Supervisor','5413700','Bou
8
9   INSERT INTO customer
10      (custno, custname, address, Internal, contact, phone, city, state, zip)
11      VALUES ('C103','Basebal','Box352020','Y','Bill Baseball','5431234','Boulder','CO','
12
```

Data Output   Explain   Messages   Notifications

INSERT 0 1

Query returned successfully in 51 msec.

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.
```

Pengisian Data Location


```
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