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Tugas 1 Data Warehouse dan Bisnis Intelligence

1. Pertama

```
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)
```

```
);
```

<input type="checkbox"/>	Name	Owner	Partitioned table?	Comment
<input type="checkbox"/>	customer	postgres	<input type="button" value="False"/>	

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

2. menjalankan create table facility

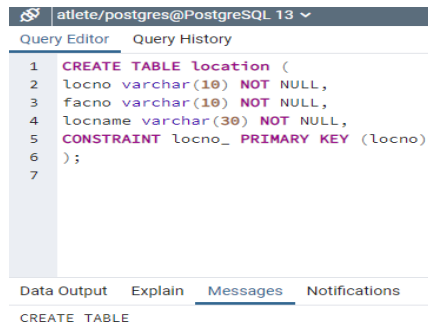
```
CREATE TABLE facility ( facno varchar(10)
NOT NULL, facname varchar(30) NOT NULL,
CONSTRAINT facno_ PRIMARY KEY (facno)
);
```

<input type="checkbox"/>	Name	Owner	Partitioned table?	Comment
<input type="checkbox"/>	customer	postgres	False	
<input checked="" type="checkbox"/>	facility	postgres	False	

```
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
```

3. menjalankan create table location

```
CREATE TABLE location ( locno varchar(10) NOT NULL,  
facno varchar(10) NOT NULL,  
locname varchar(30) NOT NULL,  
CONSTRAINT locno_ PRIMARY KEY (locno)  
);
```



The screenshot shows a PostgreSQL Query Editor window with the title 'atlete/postgres@PostgreSQL 13'. The 'Query Editor' tab is active, displaying a SQL script that has been executed. The script is as follows:

```
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
```

Below the query editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Messages' tab is currently selected, showing a single message: 'CREATE TABLE'.

<input type="checkbox"/>	Name	Owner	Partitioned table?	Comment
<input type="checkbox"/>	customer	postgres	<div>False</div>	
<input type="checkbox"/>	facility	postgres	<div>False</div>	
<input checked="" type="checkbox"/>	location	postgres	<div>False</div>	

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. menjalankan table location

alter table location add

constraint _locno

foreign key (facno) references

facility (facno);



```
1 alter table location
2 add constraint _locno
3 foreign key (facno) references facility (facno);
```

ALTER TABLE

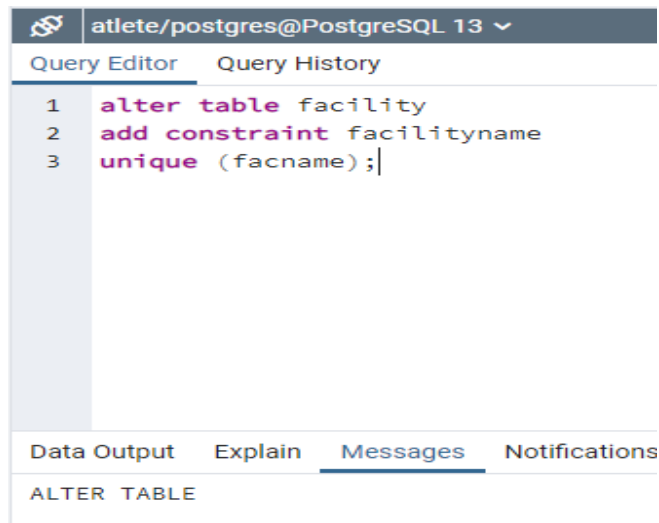
6. Null tidak boleh digunakan dalam foreign key. Pertama, ingat foreign key hanya mengharuskan nilai di bidang itu harus ada terlebih dahulu di tabel yang berbeda (tabel induk). Itu semua adalah definisi FK. Null menurut definisi bukanlah nilai. Null artinya kita belum tahu berapa nilainya.

7. menjalankan alter table facility

alter table facility

add constraint facilitynameunique

(facname);



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

ALTER TABLE

Pengisian DataCustomer

```
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.
```

pgAdmin 4

pgAdmin File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents atlete/postgres... atlete/postgres... atlete/postgres... a < > tse

atlete/postgres@PostgreSQL 13

Query Editor Query History Scratch Pad

```
1 select * from customer;
```

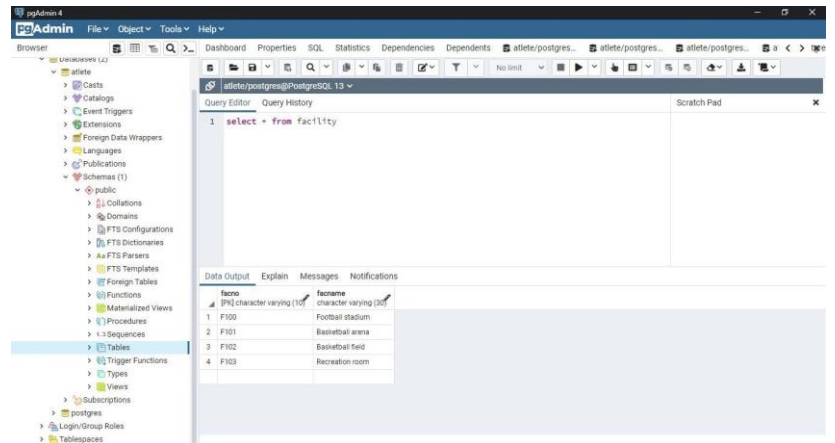
Data Output Explain Messages Notifications

	custno [PK] character varying (10)	custname character varying (30)	address character varying (30)	internal character varying (1)	contact character varying (30)	phone character varying (10)	city character varying (15)	state charact
1	C100	Football	Box352200	Y	Mary Manager	6857100	Boulder	CO
2	C101	Men s Basketball	Box352400	Y	Sally Supervisor	5413700	Boulder	CO
3	C103	Basebal	Box352020	Y	Bill Baseball	5431234	Boulder	CO
4	C104	Women s Softball	Box351200	Y	Sue Softball	5434321	Boulder	CO
5	C105	High School Football	123 AnyStreet	N	Coach Bob	4441234	Louisville	CO

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');
13
Data Output  Explain  Messages  Notifications
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
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.

pgAdmin 4

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Dashboard Properties SQL Statistics Dependencies Dependents atlete/postgres... atlete/postgres... atlete/postgres...

Query Editor Query History

1 select * from location

Scratch Pad

Data Output Explain Messages Notifications

	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	F101	Ticket Booth
6	L105	F101	Gate
7	L106	F100	Pedestrian gate