LAPORAN

TUGAS 1

DATA WAREHOUSE DAN BUSINESS INTELLIGENCE

OLEH :

Kristina Ronalita Nainggolan

181402135

KOM C

TEKNOLOGI INFORMASI

FAKULTAS ILMU KOMPUTER DAN TEKNOLOGI INFORMASI

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1. Write a CREATE TABLE statement for the Customer table. Choose data types appropriate for the DBMS used in your course. All columns are required (not null).

```
CREATE TABLE Customer(
    custno CHAR (11) primary key not null,
    custname VARCHAR(50) not null,
    address VARCHAR(50) not null,
    internal BOOLEAN not null,
    contact VARCHAR(50) not null,
    phone VARCHAR(50) not null,
    city VARCHAR(50) not null,
    state CHAR(10) not null,
    zip CHAR(10) not null
);
```

2. Write a CREATE TABLE statement for the Customer table. Choose data types appropriate for the DBMS used in your course. All columns are required (not null).

```
CREATE TABLE Facility(
facno CHAR(10) primary key not null,
facname VARCHAR(50) not null
);
```

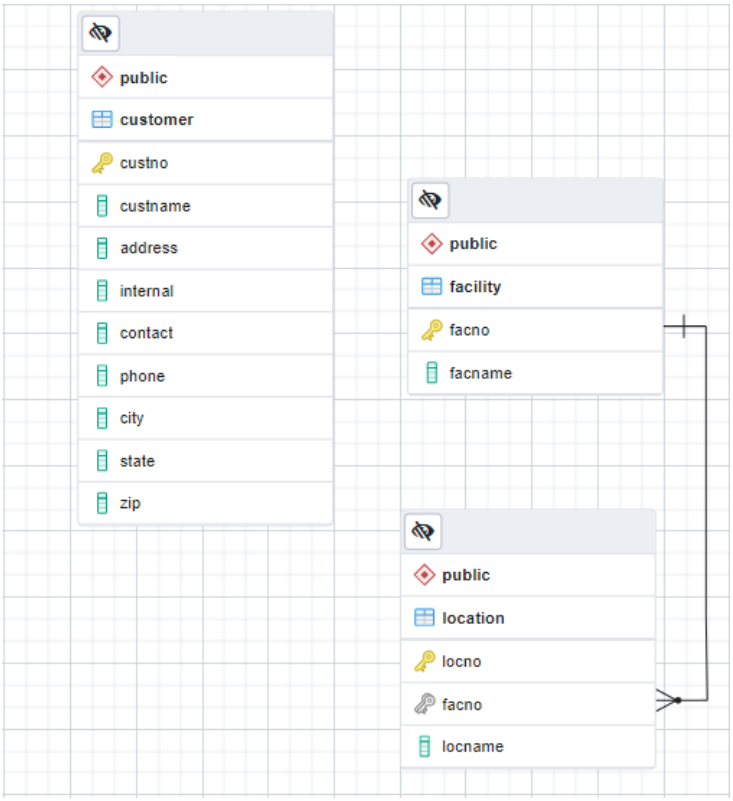
3. Write a CREATE TABLE statement for the Location table. Choose data types appropriate for the DBMS used in your course. LocName column is required (not null).

```
CREATE TABLE Location(
locno CHAR(10) primary key not null,
facno CHAR(10) not null,
locname VARCHAR(50) not null,
foreign key (facno) references Facility (facno)
);
```

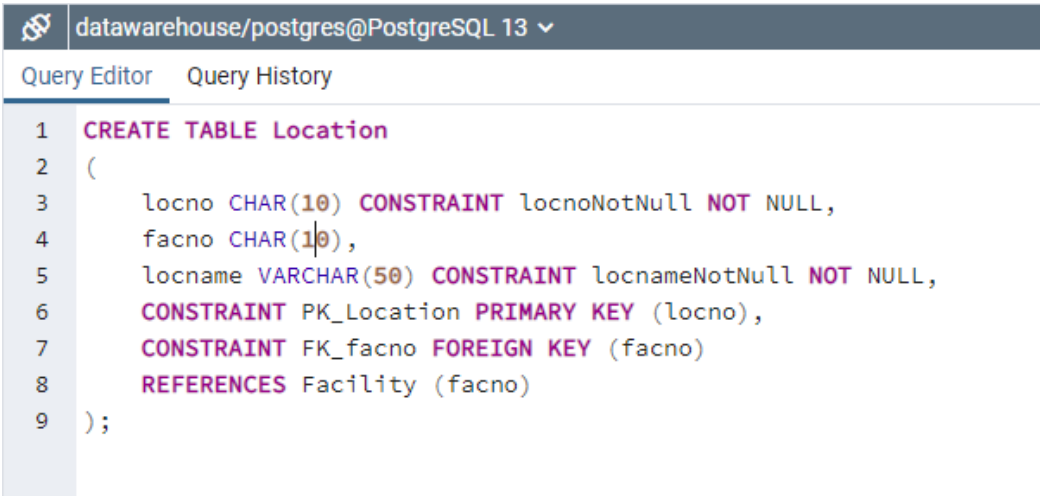
4. Identify the foreign key(s) and 1-M relationship(s) among the *Customer*, *Facility*, and *Location* tables. For each relationship, identify the parent table and the child table.

- Facility - Location adalah **1-Many relationship**

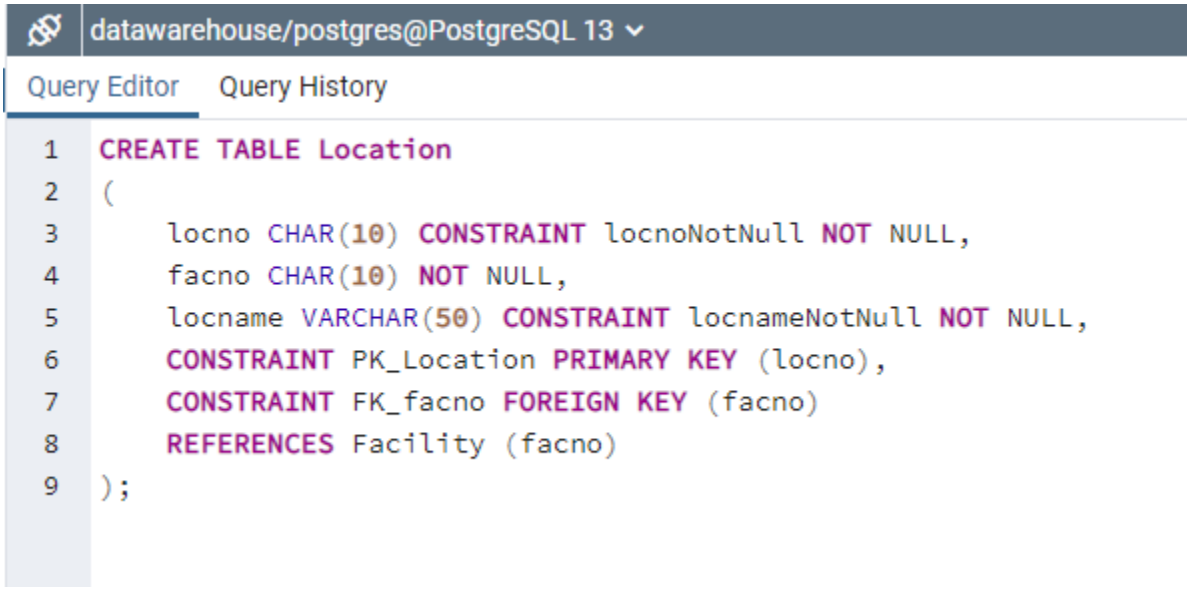
  Dengan tabel Facility sebagai parent table dan tabel Location sebagai child table.



5. Extend your CREATE TABLE statement from problem (3) with referential integrity constraints.



6. From examination of the sample data and your common understanding of scheduling and operation of events, are null values allowed for the foreign key in the Location table? Why or why not? Extend the CREATE TABLE statement in problem (5) to enforce the null value restrictions if any.



7. Extend your CREATE TABLE statement for the Facility table (problem 2) with a unique constraint for FacName. Use an external named constraint clause for the unique constraint.