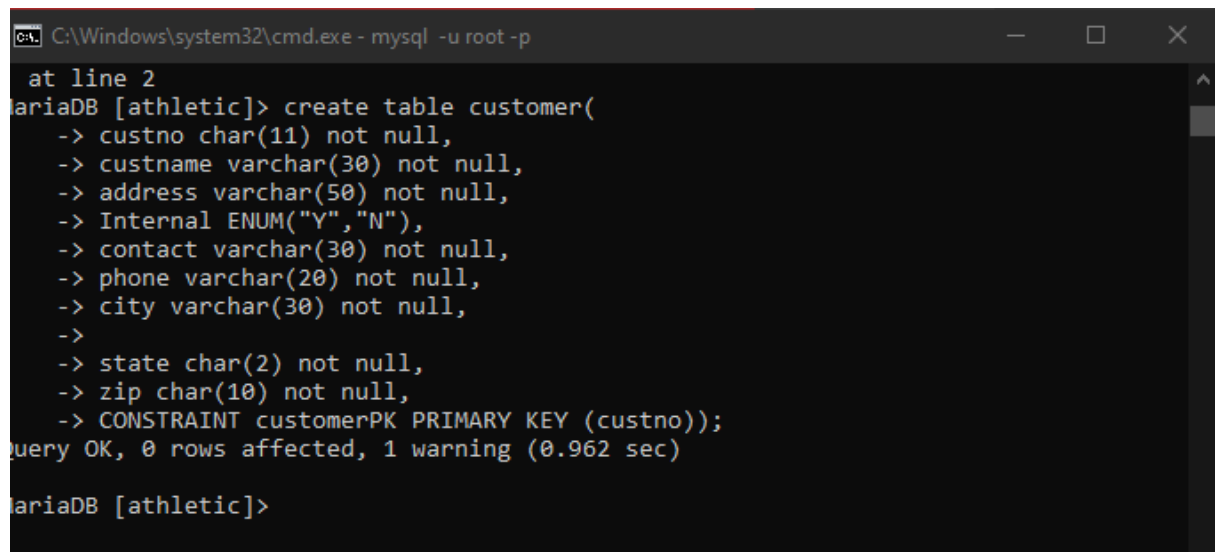Nama   : Vanya Widya Meifarizka S

Nim   : 181402123

Mata Kuliah   : Data Warehhouse dan Bisnis Intelligence

TUGAS 1

1. Table Customer

```
C:\Windows\system32\cmd.exe - mysql -u root -p
MariaDB [(none)]> use athletic;
Database changed
MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C100', 'Football', 'Box 352200', 'Y', 'Mary Manager', '6857100', 'B
oulder', 'CO', '80309');
ERROR 1062 (23000): Duplicate entry 'C100' for key 'PRIMARY'
MariaDB [athletic]>
MariaDB [athletic]>
MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C101', 'Men's Basketball', 'Box 352400', 'Y', 'Sally Supervisior',
'5431700', 'Boulder', 'CO', '80309');
    '> VALUES ('C101', 'Men's Basketball', 'Box 352400', 'Y', 'Sally Supervisior',
'5431700', 'Boulder', 'CO', '80309');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that cor
responds to your MariaDB server version for the right syntax to use near 's Basketb
all', 'Box 352400', 'Y', 'Sally Supervisior', '5431700', 'Boulder', 'CO' at line 3
MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C101', 'Men`s Basketball', 'Box 352400', 'Y', 'Sally Supervisior',
'5431700', 'Boulder', 'CO', '80309');
Query OK, 1 row affected (0.086 sec)

MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C103', 'Baseball', 'Box 352020', 'Y', 'Bill Baseball', '5431234', '
Boulder', 'CO', '80309');
Query OK, 1 row affected (0.191 sec)

MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C104', 'Women`s Softball', 'Box 351200', 'Y', 'Sue Softball', '5434
321', 'Boulder', 'CO', '80309');
Query OK, 1 row affected (0.032 sec)

MariaDB [athletic]> INSERT INTO customer
    -> (custno, custname, address, Internal, contact, phone, city, state, zip)
    -> VALUES ('C105', 'High School Football', '123 Anystreet', 'N', 'Coach Ball',
'4441234', 'Lousville', 'CO', '80027');
Query OK, 1 row affected (0.081 sec)

MariaDB [athletic]>
```

2. Table Facility


```
MariaDB [athletic]> create table Facility(
    -> facno char(11) not null,
    -> facname varchar(30) not null,
    -> CONSTRAINT FacilityPK PRIMARY KEY (facno));
Query OK, 0 rows affected, 1 warning (1.398 sec)

MariaDB [athletic]>
```

```
MariaDB [athletic]> INSERT INTO Facility
    -> (facno, facname)
    -> VALUES ('F100', 'Football Stadium');
Query OK, 1 row affected (0.158 sec)

MariaDB [athletic]> INSERT INTO Facility
    -> (facno, facname)
    -> VALUES ('F101', 'Basketball Arena');
Query OK, 1 row affected (0.039 sec)

MariaDB [athletic]> INSERT INTO Facility
    -> (facno, facname)
    -> VALUES ('F102', 'Baseball Field');
Query OK, 1 row affected (0.120 sec)

MariaDB [athletic]> INSERT INTO Facility
    -> (facno, facname)
    -> VALUES ('F103', 'Recreation Room');
Query OK, 1 row affected (0.035 sec)

MariaDB [athletic]> SELECT * FROM Facility;
+-------+------------------+
| facno | facname          |
+-------+------------------+
| F100  | Football Stadium |
| F101  | Basketball Arena |
| F102  | Baseball Field   |
| F103  | Recreation Room  |
+-------+------------------+
4 rows in set (0.001 sec)

MariaDB [athletic]>
```

3. Table Location

```
MariaDB [athletic]> CREATE TABLE Location(
    -> locno char(11) not null,
    -> facno char(11),
    -> Locname varchar(30) not null,
    -> CONSTRAINT LocationPK PRIMARY KEY (locno),
    -> CONSTRAINT FacilityFK FOREIGN KEY (facno) REFERENCES Facility (facno));
Query OK, 0 rows affected, 1 warning (0.803 sec)

MariaDB [athletic]>
```

```
C:\Windows\system32\cmd.exe - mysql -u root -p                          —    □    ×

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L101', 'F100', 'Plaza');
Query OK, 1 row affected (0.349 sec)

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L102', 'F100', 'Vehicle Gate');
Query OK, 1 row affected (0.047 sec)

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L103', 'F101', 'Locker Room');
Query OK, 1 row affected (0.055 sec)

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L104', 'F100', 'Ticket Booth');
Query OK, 1 row affected (0.035 sec)

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L105', 'F101', 'Gate');
Query OK, 1 row affected (0.135 sec)

MariaDB [athletic]> INSERT INTO Location
    -> (locno, facno, locname)
    -> VALUES ('L106', 'F100', 'Pedestrian Gate');
Query OK, 1 row affected (0.122 sec)

MariaDB [athletic]> SELECT * FROM Location;
+-------+-------+-----------------+
| locno | facno | Locname         |
+-------+-------+-----------------+
| L100  | F100  | Locker Room     |
| L101  | F100  | Plaza           |
| L102  | F100  | Vehicle Gate    |
| L103  | F101  | Locker Room     |
| L104  | F100  | Ticket Booth    |
| L105  | F101  | Gate            |
| L106  | F100  | Pedestrian Gate |
+-------+-------+-----------------+
```
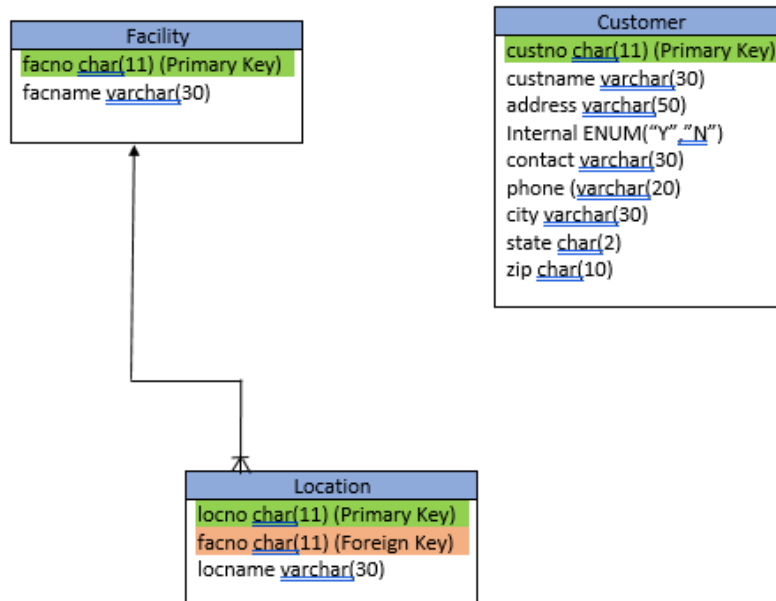
4. Foreign keynya adalah facno di tabel location, dengan Facility sebagai parent table dan location sebagai child table.

Facility
| facno char(11) (Primary Key) |
| facname varchar(30) |

Customer
| custno char(11) (Primary Key) |
| custname varchar(30) |
| address varchar(50) |
| Internal ENUM("Y","N") |
| contact varchar(30) |
| phone (varchar(20) |
| city varchar(30) |
| state char(2) |
| zip char(10) |

Location
| locno char(11) (Primary Key) |
| facno char(11) (Foreign Key) |
| locname varchar(30) |

5.

6. Ya diperbolehkan, Foreign key dapat menerima nilai NULL. Oleh karena itu, foreign key tidak memiliki fungsi untuk mengidentifikasi record yang terdapat dalam tabel. Selain itu, foreign key juga dapat menerima nilai yang duplikat.