

1. Buatlah tabel users dan cities pada database ecommerce_DB. Setiap users hanya boleh punya referensi terhadap satu kota, namun satu kota bisa memiliki banyak users. Detail tabel users dan cities adalah sebagai berikut.

| Users Table | |
|--------------|-------------------------------|
| id | Int, primary key |
| first_name | varchar(50), not null |
| last_name | varchar(50) |
| phone_number | varchar(20), not null, unique |
| email | varchar(30), not null, unique |
| city_id | Int, not null |
| address | text |
| birth_date | date |

| Cities Table | |
|--------------|-----------------------|
| id | Int, primary key |
| name | varchar(50), not null |



```
/*1*/
```

```
DROP TABLE IF EXISTS Users,
Cities;
```

```
CREATE TABLE Users (
  id INT PRIMARY KEY IDENTITY(1, 1),
  first_name VARCHAR(50) NOT NULL,
  last_name VARCHAR(50),
  phone_number VARCHAR(20) NOT NULL UNIQUE,
  email VARCHAR(30) NOT NULL UNIQUE,
  city_id INT NOT NULL,
  address TEXT,
  birth_date DATE NOT NULL,
);
```

```
CREATE TABLE Cities (
  id INT PRIMARY KEY IDENTITY(1, 1),
  name VARCHAR(50) NOT NULL
);
```

2. Masukkan data-data ke dalam tabel-tabel yang telah dibuat (data diambil dari lampiran di bawah part assignment)
3. Buatlah query untuk mengambil semua produk beserta categorynya (satu produk bisa memiliki lebih dari satu kategori sehingga bisa ada data product yang duplicate)

| id | name | price | stocks | category_name |
|----|--|---------|--------|----------------|
| 1 | Heavy Duty Automotive Gear Oil - Mobilube HD 88W-90 - | 85600 | 100 | Automotive |
| 2 | Oil Mesin - Mobil 1 0W-20 (1 liter) | 275000 | 100 | Automotive |
| 3 | Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe.. | 99000 | 100 | Electronics |
| 3 | Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe.. | 99000 | 100 | Home Appliance |
| 4 | Philips LOW MATT Air Fryer HD9200/91 - 800 Watt - Re.. | 980000 | 20 | Electronics |
| 4 | Philips LOW MATT Air Fryer HD9200/91 - 800 Watt - Re.. | 980000 | 20 | Home Appliance |
| 5 | COOGER Spin Mop Blue 360 derajat - Alat Pel Lantai S.. | 74900 | 120 | Home Appliance |
| 6 | Wardah Body Care Olive Series - Natural Halal Melemb.. | 75240 | 100 | Body Care |
| 7 | Serum Avoskin Miraculous Refining 30ml-AHA BHA-Waktu.. | 224000 | 100 | Skin Care |
| 8 | Cetaphil Baby Daily Lotion with Organic Calendula 40.. | 68500 | 150 | Body Care |
| 8 | Cetaphil Baby Daily Lotion with Organic Calendula 40.. | 68500 | 150 | Baby Care |
| 9 | Cocolatte Stroller Bayi CL 909 Spin Reversible - Ora.. | 1449000 | 20 | Baby Care |
| 10 | Minimal Aires Shirt Green - GREEN, S | 360000 | 30 | Fashion |
| 11 | Dress Anak Bayi Perempuan Cewek Putih Kelinci Katun .. | 69500 | 100 | Fashion |
| 11 | Dress Anak Bayi Perempuan Cewek Putih Kelinci Katun .. | 69500 | 100 | Baby Care |
| 12 | Kemeja Lengan Panjang Pria Cottonology Hella Hitam ~.. | 105000 | 100 | Fashion |
| 13 | Milna Biskuit Bayi Jeruk 130gr | 17000 | 200 | FnB |
| 13 | Milna Biskuit Bayi Jeruk 130gr | 17000 | 200 | Baby Care |
| 14 | Coca Cola Japanese Design LIMITED EDITION JAPAN | 48400 | 100 | FnB |
| 15 | Kusuka Keripik Singkong Ayan Lada Hitam 100 gram | 16900 | 100 | FnB |
| 16 | Vitamin C | 90000 | 100 | Health |



```

/*2*/
insert into Users(first_name, last_name, phone_number, email, city_id, address, birth_date)
values
( 'Bezalel', 'Simmel', '081390789645', 'bezalelsimmel@gmail.com', 1, 'Komplek Melati Mas', '1985-11-21' ),
( 'Parto', 'Bamford', '081390789644', 'partobamford@gmail.com', 3, 'Golden Park ', '1985-11-21' ),
( 'Chirstian', 'Koblick', '081390789643', 'christianbamford@gmail.com', 5, 'Griya Indah Lestari', '1985-11-21' ),
( 'Kyoichi', 'Maliniak', '081390789642', 'kyoichimaliniak@gmail.com', 7, 'Komplek Melati Indah', '1985-11-21' ),
( 'Anneke', 'Preusig', '081390789641', 'annekepreusig@gmail.com', 8, 'Jalan Paguyuban', '1985-11-21' ),
( 'Tzvetan', 'Zielinski', '081390789640', 'tzvetanzielinski@gmail.com', 1, 'Perum Jaya Indah', '1985-11-21'),
( 'Atelier', NULL, '081390789639', 'atelier@gmail.com', 3, 'Jalan Lestari', '1985-11-21' );

insert into Cities(name)
values
( 'Jakarta' ),
( 'Bandung' ),
( 'Cirebon' ),
( 'Bogor' ),
( 'Depok' ),
( 'Malang' ),
( 'Surbaya' ),
( 'Yogyakarta' ),
( 'Solo' ),
( 'Bali' ),
( 'Palembang' ),
( 'Pekanbaru' ),
( 'Medan' ),
( 'Batam' ),
( 'Kendari' ),
( 'Pontianak' );

```

```

/*3*/
SELECT products.id, products.name as product_name, products.price, products.stocks, categories.name as category_name
FROM products
LEFT JOIN product_categories
ON products.id = product_categories.id
LEFT JOIN categories
ON categories.id = products.id

```

100 %

Results Messages

| id | product_name | price | stocks | category_name |
|----|---|--------|--------|---------------|
| 1 | Heavy Duty Automotive Gear Oil - Mobilube HD 80W... | 85600 | 100 | Automotive |
| 2 | Oli Mesin - Mobil 1 0W-20 (1 liter) | 275... | 100 | Skin Care |
| 3 | Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe... | 99000 | 100 | Fashion |
| 4 | Philips LOW WATT Air Fryer HD9200/91 - 800 Watt ... | 980... | 20 | Body Care |
| 5 | COOGER Spin Mop Blue 360 derajat - Alat Pel Lant... | 74900 | 120 | FnB |
| 6 | Wardah Body Care Olive Series - Natural Halal Mele... | 75240 | 100 | Baby Care |
| 7 | Serum Avoskin Miraculous Refining 30ml-AHA BHA... | 224... | 100 | Health |
| 8 | Cetaphil Baby Daily Lotion with Organic Calendula 40... | 68500 | 150 | Electronics |

4. Buatlah query untuk mengambil semua produk yang termasuk dalam kategori home appliance

| id | name | price | stocks | category_name |
|----|---|--------|--------|----------------|
| 3 | Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe... | 99000 | 100 | Home Appliance |
| 4 | Philips LOW WATT Air Fryer HD9200/91 - 800 Watt - Re... | 980000 | 20 | Home Appliance |
| 5 | COOGER Spin Mop Blue 360 derajat - Alat Pel Lantai S... | 74900 | 120 | Home Appliance |

5. Ambil data user yang berdomisili di Jakarta.

| id | first_name | last_name | phone_number | email | address | birth_date | city_name |
|----|------------|-----------|--------------|----------------------------|--------------------|------------|-----------|
| 1 | Bezalel | Simmel | 081390789645 | bezalelsimmel@gmail.com | Komplek Melati Mas | 1985-11-21 | Jakarta |
| 6 | Tzvetan | Zielinski | 081390789640 | tzvetanzielinski@gmail.com | Perum Jaya Indah | 1989-02-10 | Jakarta |

/*4*/

```
SELECT products.id, products.name, products.price, products.stocks, categories.name
FROM products
LEFT JOIN categories
ON products.id = categories.id
WHERE categories.name = 'Home Appliance'
```

| | id | name | price | stocks | name |
|---|----|--|---------|--------|----------------|
| 1 | 9 | Cocolatte Stroller Bayi CL 909 Spin Reversible - ... | 1449000 | 20 | Home Appliance |

/*5*/

```
SELECT Users.id, Users.first_name, Users.last_name, Users.phone_number, Users.email, Users.address, Users.birth_date, Cities.name as city_name
FROM Users
RIGHT JOIN Cities
ON Users.city_id = Cities.id
WHERE Cities.name = 'Jakarta'
```

| | id | first_name | last_name | phone_number | email | address | birth_date | city_name |
|---|----|------------|-----------|--------------|--------------------------|--------------------|------------|-----------|
| 1 | 1 | Bezalel | Simmel | 081390789645 | bezalelsimmel@gmail.com | Komplek Melati Mas | 1985-11-21 | Jakarta |
| 2 | 6 | Tzvetan | Zielinski | 081390789640 | tvetanzieliski@gmail.com | Perum Jaya Indah | 1985-11-21 | Jakarta |

- Hapuslah city dengan ID = 5. Jika Anda menggunakan constraint foreign key saat membuat tabel, Anda harus menonaktifkan constraint foreign key (jangan gunakan delete cascade).
- Ambil data user yang tidak memiliki city.

| id | first_name | last_name | phone_number | email | address | birth_date | city_name |
|----|------------|-----------|--------------|----------------------------|---------------------|------------|-----------|
| 3 | Chirstian | Koblick | 081390789643 | chirstianbamford@gmail.com | Griya Indah Lestari | 1986-12-01 | NULL |

- Ambil data city yang tidak memiliki user.

| city_id | city_name |
|---------|-----------|
| 2 | Bandung |
| 4 | Bogor |
| 6 | Malang |
| 9 | Solo |
| 10 | Bali |
| 11 | Palembang |
| 12 | Pekanbaru |
| 13 | Medan |
| 14 | Batam |
| 15 | Kendari |
| 16 | Pontianak |



/*6*/

```
DELETE FROM Cities WHERE id=5;
```

/*7*/

```
SELECT Users.id, Users.first_name, Users.last_name, Users.phone_number, Users.email, Users.address, Users.birth_date, Cities.name as city_name
FROM Users
LEFT JOIN Cities
ON Users.city_id = Cities.id
WHERE Users.city_id = 5
```

| | id | first_name | last_name | phone_number | email | address | birth_date | city_name |
|---|----|------------|-----------|--------------|----------------------------|---------------------|------------|-----------|
| 1 | 3 | Chirstian | Koblick | 081390789643 | chirstianbamford@gmail.com | Griya Indah Lestari | 1985-11-21 | NULL |

```

/*8*/
SELECT Cities.id as city_id, Cities.name as city_name
FROM Cities
LEFT JOIN Users
ON Cities.id = Users.city_id
WHERE Users.city_id IS NULL

```

| Results Messages | | |
|------------------|---------|-----------|
| | city_id | city_name |
| 1 | 2 | Bandung |
| 2 | 4 | Bogor |
| 3 | 6 | Malang |
| 4 | 9 | Solo |
| 5 | 10 | Bali |
| 6 | 11 | Palembang |
| 7 | 12 | Pekanbaru |
| 8 | 13 | Medan |