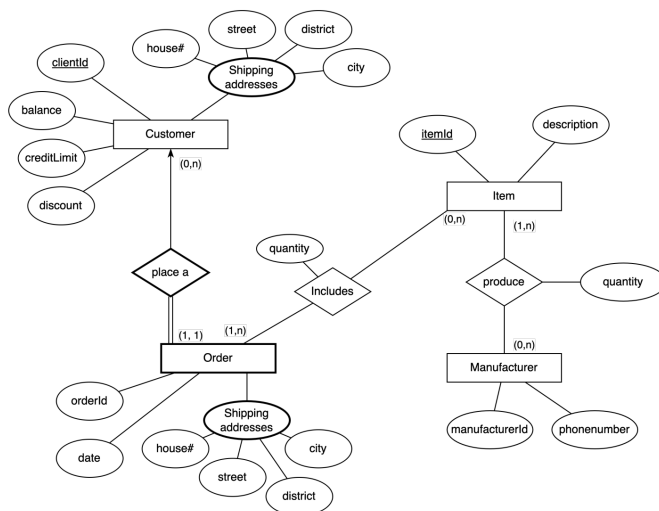


Task 1:

---



```

CREATE TABLE Item (
    id INT NOT NULL AUTO_INCREMENT,
    PRIMARY KEY(id),
    description VARCHAR(255) NOT NULL
);

```

```

CREATE TABLE Manufacturer (
    id INT NOT NULL,
    PRIMARY KEY(id),
    phoneNumber VARCHAR(255) NOT NULL
);

```

```

CREATE TABLE ItemManufacturer (
    manufacturerId INT NOT NULL,
    itemId INT NOT NULL,
    quantity INT NOT NULL,
    PRIMARY KEY (manufacturerId, itemId),
    FOREIGN KEY (manufacturerId) REFERENCES Manufacturer(id) ON UPDATE CASCADE,
    FOREIGN KEY (itemId) REFERENCES Item(id) ON UPDATE CASCADE
);

```

```

CREATE TABLE ShippingAddress (
    id INT NOT NULL AUTO_INCREMENT,
    PRIMARY KEY(id),
    customerId INT NOT NULL,
    FOREIGN KEY (customerId) REFERENCES Customer(id) ON UPDATE CASCADE,
    house VARCHAR(255) NOT NULL,
    street VARCHAR(255) NOT NULL,
    district VARCHAR(255) NOT NULL,
    city VARCHAR(255) NOT NULL
);

```

```

CREATE TABLE Customer (
    id INT NOT NULL AUTO_INCREMENT,
    PRIMARY KEY(id),
    balance DECIMAL(13, 2) NOT NULL,
    creditLimit DECIMAL(13, 2) NOT NULL,
    discount INT NOT NULL
);

```

```

CREATE TABLE Order (

```

```

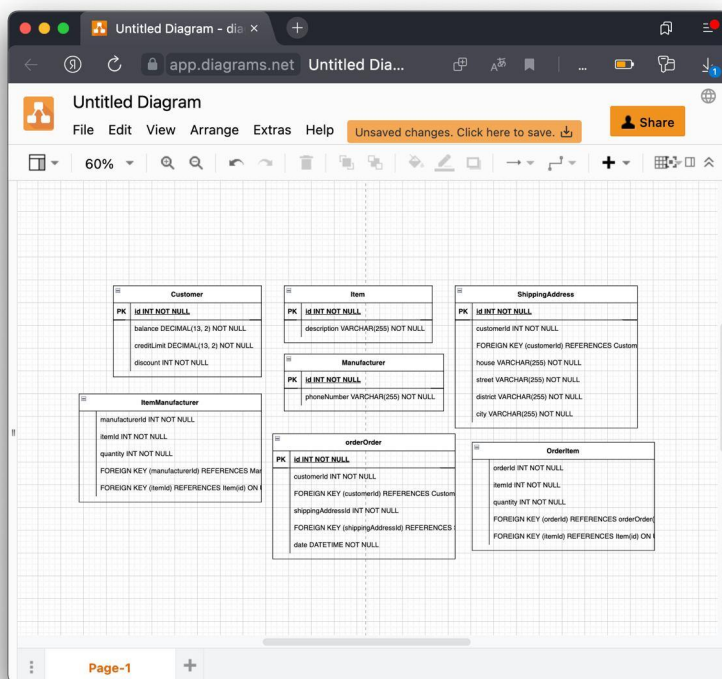
    id INT NOT NULL AUTO_INCREMENT,
    PRIMARY KEY(id),
    customerId INT NOT NULL,
    FOREIGN KEY (customerId) REFERENCES Customer(id) ON UPDATE CASCADE,
    shippingAddressId INT NOT NULL,
    FOREIGN KEY (shippingAddressId) REFERENCES ShippingAddress(id) ON UPDATE CASCADE,
    date DATETIME NOT NULL
);

```

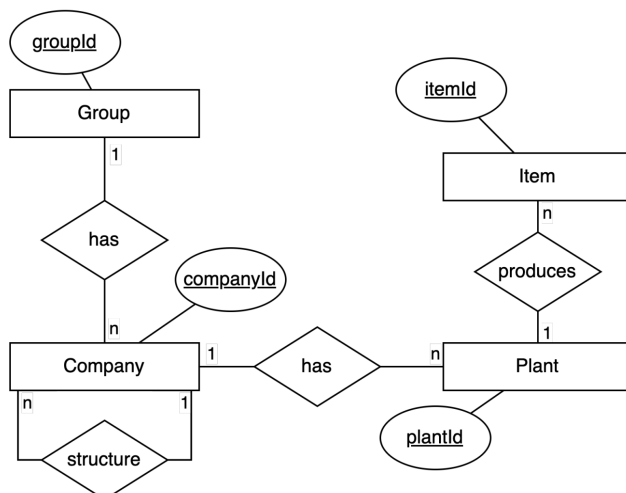
```

CREATE TABLE OrderItem (
    orderId INT NOT NULL,
    itemId INT NOT NULL,
    quantity INT NOT NULL,
    PRIMARY KEY (orderId, itemId),
    FOREIGN KEY (orderId) REFERENCES Order(id) ON UPDATE CASCADE,
    FOREIGN KEY (itemId) REFERENCES Item(id) ON UPDATE CASCADE
);

```



Task 2:



```

CREATE TABLE Group (
    groupId INT NOT NULL AUTO_INCREMENT,
    PRIMARY KEY(groupId),
);

CREATE TABLE Company (
    companyId INT NOT NULL,
    PRIMARY KEY(companyId),
    groupId INT NOT NULL,
    FOREIGN KEY (groupId) REFERENCES Group(groupId) ON UPDATE CASCADE
);

CREATE TABLE Plant (
    plantId INT NOT NULL,
    PRIMARY KEY(plantId),
    itemId INT NOT NULL,
    FOREIGN KEY (itemId) REFERENCES Item(itemId) ON UPDATE CASCADE
);

CREATE TABLE Item (
    itemId INT NOT NULL,
    PRIMARY KEY(itemId),
    plantId INT NOT NULL,
    FOREIGN KEY (plantId) REFERENCES Plant(plantId) ON UPDATE CASCADE
);

CREATE TABLE Structure (
    companyId INT NOT NULL,
    PRIMARY KEY(companyId),
    companyId INT NOT NULL,
    FOREIGN KEY (companyId) REFERENCES Company(companyId) ON UPDATE CASCADE
);

```

