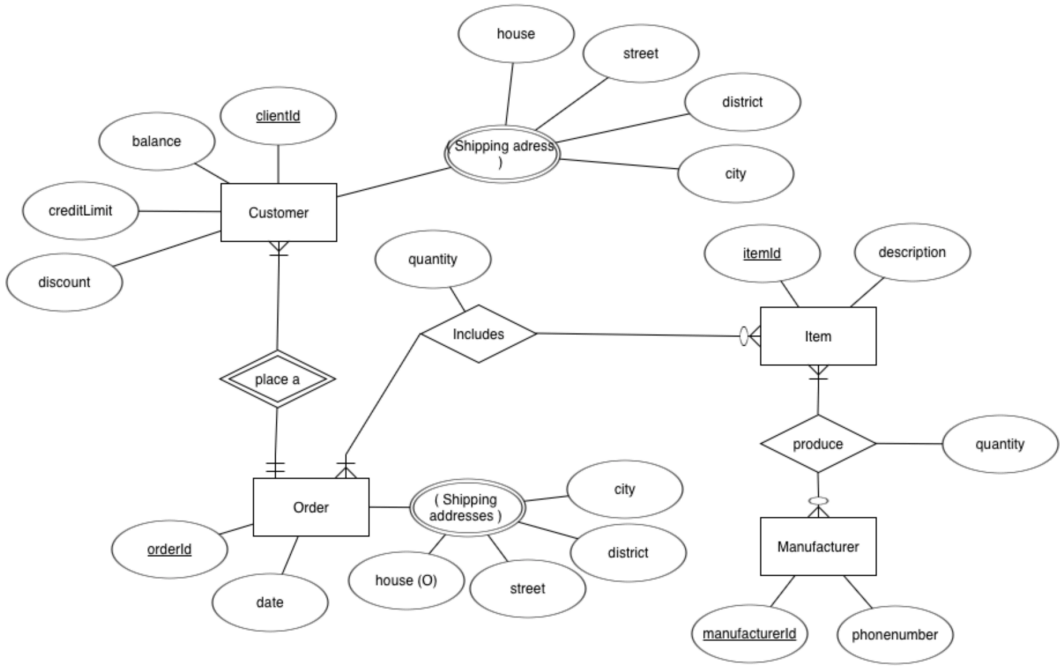
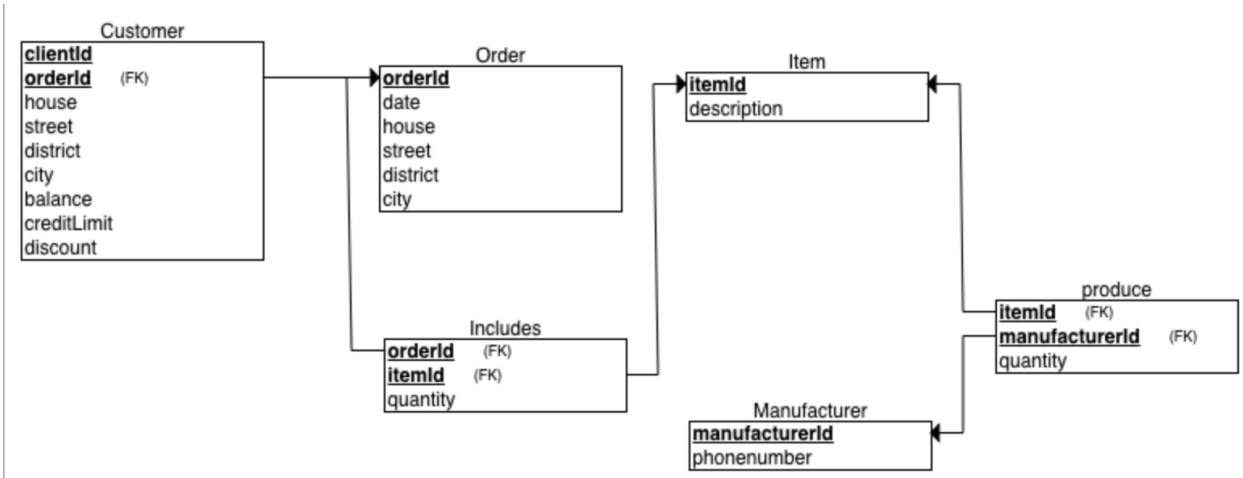
Lab 5

1






```
CREATE TABLE Order
(
  orderId INT NOT NULL,
  date INT NOT NULL,
  house INT NOT NULL,
  street INT NOT NULL,
  district INT NOT NULL,
  city INT NOT NULL,
  PRIMARY KEY (orderId)
```

```
);

CREATE TABLE Item
(
  itemId INT NOT NULL,
  description INT NOT NULL,
  PRIMARY KEY (itemId)
);

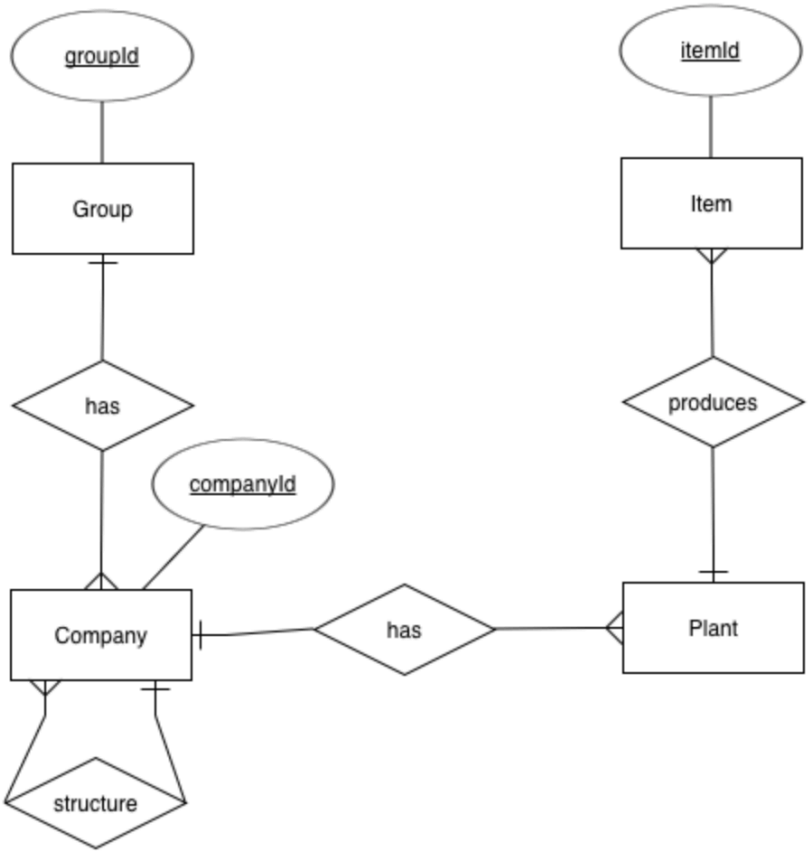
CREATE TABLE Manufacturer
(
  manufacturerId INT NOT NULL,
  phonenumber INT NOT NULL,
  PRIMARY KEY (manufacturerId)
);

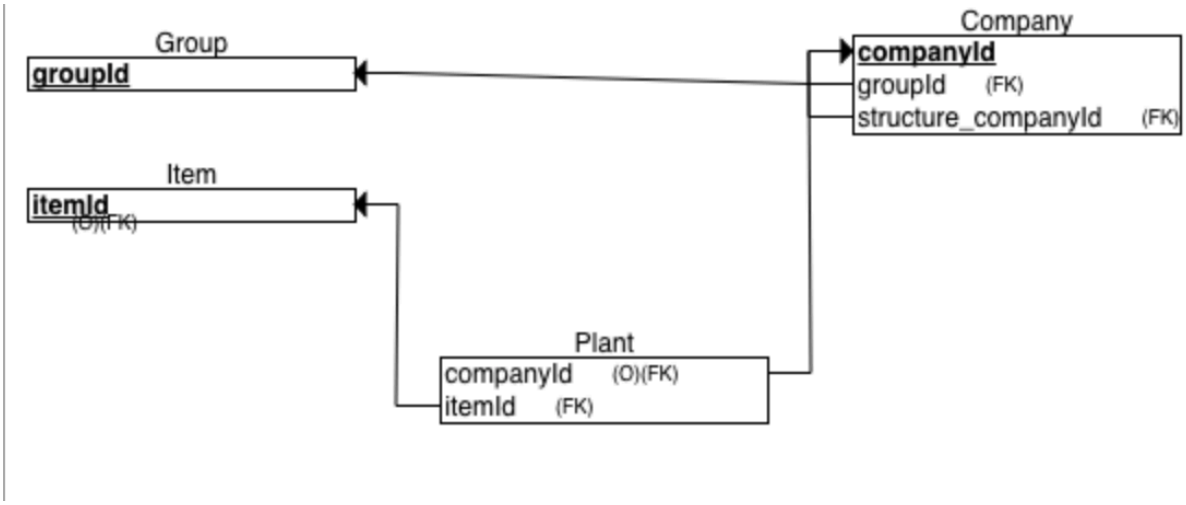
CREATE TABLE Includes
(
  quantity INT NOT NULL,
  orderId INT NOT NULL,
  itemId INT NOT NULL,
  PRIMARY KEY (orderId, itemId),
  FOREIGN KEY (orderId) REFERENCES Order(orderId),
  FOREIGN KEY (itemId) REFERENCES Item(itemId)
);

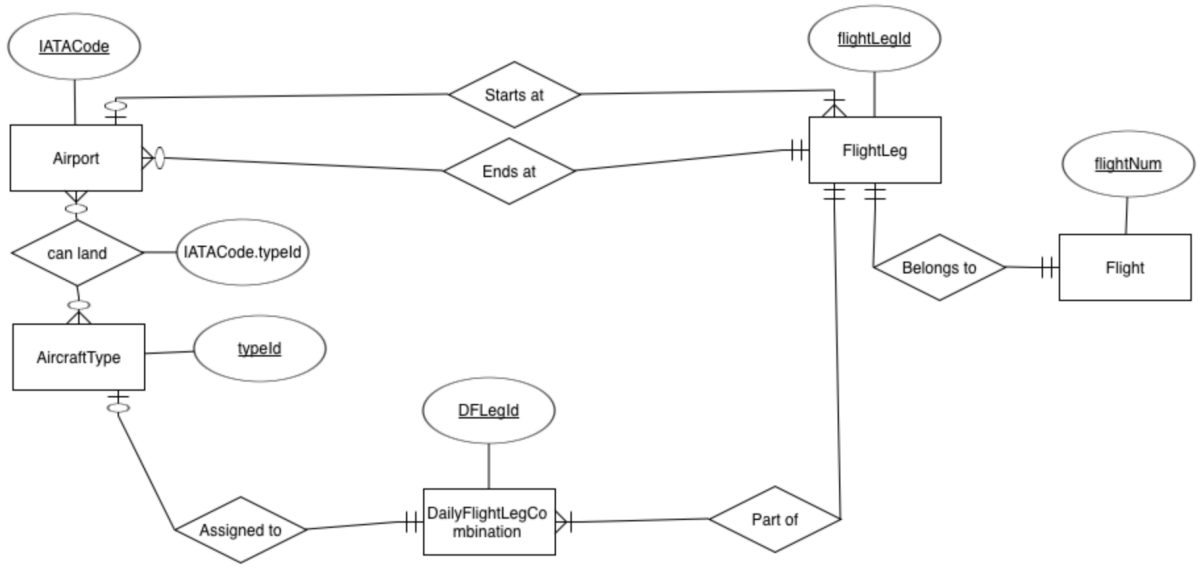
CREATE TABLE produce
(
  quantity INT NOT NULL,
  itemId INT NOT NULL,
  manufacturerId INT NOT NULL,
  PRIMARY KEY (itemId, manufacturerId),
  FOREIGN KEY (itemId) REFERENCES Item(itemId),
  FOREIGN KEY (manufacturerId) REFERENCES Manufacturer(manufacturerId)
);

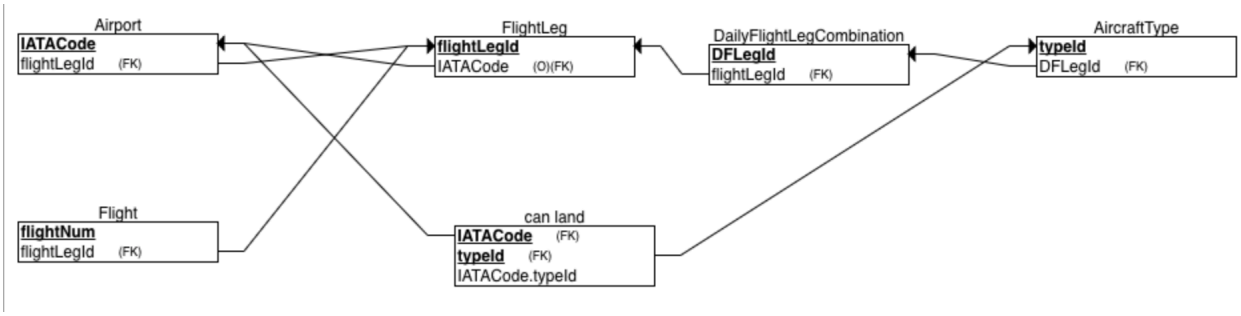
CREATE TABLE Customer
(
  house INT NOT NULL,
  street INT NOT NULL,
  district INT NOT NULL,
  city INT NOT NULL,
  clientId INT NOT NULL,
  balance INT NOT NULL,
  creditLimit INT NOT NULL,
  discount INT NOT NULL,
  orderId INT NOT NULL,
  PRIMARY KEY (clientId, orderId),
  FOREIGN KEY (orderId) REFERENCES Order(orderId)
);
```

2


groupId
itemId
Group
Item
has
produces
companyId
Company
has
Plant
structure


Group
groupId
Company
companyId
groupId (FK)
structure_companyId (FK)
Item
itemId
(O)(FK)
Plant
companyId (O)(FK)
itemId (FK)






```
CREATE TABLE Airport
(
  IATACode INT NOT NULL,
  flightLegId INT NOT NULL,
  PRIMARY KEY (IATACode),
  FOREIGN KEY (flightLegId) REFERENCES FlightLeg(flightLegId)
);

CREATE TABLE FlightLeg
(
  flightLegId INT NOT NULL,
  IATACode INT,
  PRIMARY KEY (flightLegId),
  FOREIGN KEY (IATACode) REFERENCES Airport(IATACode)
);

CREATE TABLE AircraftType
(
  typeId INT NOT NULL,
  DFLegId INT NOT NULL,
  PRIMARY KEY (typeId),
  FOREIGN KEY (DFLegId) REFERENCES DailyFlightLegCombination(DFLegId)
);

CREATE TABLE Flight
```

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(
  flightNum INT NOT NULL,
  flightLegId INT NOT NULL,
  PRIMARY KEY (flightNum),
  FOREIGN KEY (flightLegId) REFERENCES FlightLeg(flightLegId)
);

CREATE TABLE DailyFlightLegCombination
(
  DFLegId INT NOT NULL,
  flightLegId INT NOT NULL,
  PRIMARY KEY (DFLegId),
  FOREIGN KEY (flightLegId) REFERENCES FlightLeg(flightLegId)
);

CREATE TABLE can_land
(
  IATACode.typeId INT NOT NULL,
  IATACode INT NOT NULL,
  typeId INT NOT NULL,
  PRIMARY KEY (IATACode, typeId),
  FOREIGN KEY (IATACode) REFERENCES Airport(IATACode),
  FOREIGN KEY (typeId) REFERENCES AircraftType(typeId)
);
```