

Lab05

Exercise 1(SQL)

```
CREATE TABLE Shipping_addresses
(
  addressId INT NOT NULL PRIMARY KEY,
  city CHAR(50),
  district CHAR(50),
  street CHAR(50),
  house INT
);
CREATE TABLE Customer
(
  clientId INT NOT NULL PRIMARY KEY,
  balance INT,
  creditLimit INT,
  discount INT,
  address CHAR(50),
  FOREIGN KEY (address)
REFERENCES Shipping_addresses(addressId),
);
CREATE TABLE Orderr
(
  client INT,
  orderId INT NOT NULL PRIMARY KEY,
  date char(10),
  address CHAR(50),
  FOREIGN KEY (address)
REFERENCES Shipping_addresses(addressId),
  FOREIGN KEY (client)
REFERENCES Customer(clientId)
);
CREATE TABLE Item
(
  itemId INT NOT NULL PRIMARY KEY,
  description CHAR(50)
);
CREATE TABLE Includes
(
  includesId INT NOT NULL PRIMARY KEY,
  quantity INT,
  oID INT NOT NULL,
  iID INT,
  FOREIGN KEY (oID)
REFERENCES Orderr(orderId),
  FOREIGN KEY (iID)
REFERENCES Item(itemId)
);
CREATE TABLE Manufacturer
(
  manufactureId INT NOT NULL PRIMARY KEY,
  phonenumber INT
);
CREATE TABLE Produce
(
  produceId INT NOT NULL PRIMARY KEY,
  quantity INT,
  iID INT NOT NULL,
  mID INT,
  FOREIGN KEY (mID)
REFERENCES Manufacturer(manufacturerId),
  FOREIGN KEY (iID)
REFERENCES Item(itemId)
);
```

Exercise 2(SQL)

```

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

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

CREATE TABLE Company
(
  companyId INT NOT NULL PRIMARY KEY,
  pId INT,
  FOREIGN KEY (pId)
  REFERENCES Plant(plantId)
);

CREATE TABLE "Group"
(
  groupId INT NOT NULL PRIMARY KEY,
  cId INT,
  FOREIGN KEY (cId)
  REFERENCES Company(companyId)
);

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

```

Exercise 3(SQL)

```

CREATE TABLE Airport
(
  IATACode INT NOT NULL PRIMARY KEY
);

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

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

CREATE TABLE Flight
(
  flightNum INT NOT NULL PRIMARY KEY,
  flId INT,
  FOREIGN KEY (flId)
  REFERENCES FlightLeg(flightLegId)
);

```

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

CREATE TABLE "Can Land"
(
IATACode INT NOT NULL PRIMARY KEY,
typeID INT NOT NULL PRIMARY KEY
);
```