```
Step one: Create strong entity
CREATE TABLE customer (
 custID VARCHAR(255),
 name VARCHAR(255),
 accountBalance INT,
 PRIMARY KEY(custID)
);
CREATE TABLE stuff (
 stuffID VARCHAR(255),
 name VARCHAR(255),
 jobTitlt VARCHAR(255),
 salary INT,
 PRIMARY KEY(stuffID)
);
CREATE TABLE supplier (
 supplierID VARCHAR(255),
 name VARCHAR(255),
 price FLOAT(2),
 PRIMARY KEY(supplierID)
);
CREATE TABLE order (
 orderNumber VARCHAR(255),
 orderquantity INT,
 status VARCHAR(25),
 PRIMARY KEY(orderNumber)
);
CREATE TABLE pricing (
 state VARCHAR(99),
 parameter FLOAT(2),
 PRIMARY KEY(state)
);
CREATE TABLE product (
 productID VARCHAR(255),
 productName VARCHAR(255),
 productInfo VARCHAR(255),
 productSize FLOAT(2),
 url VARCHAR(255),
 PRIMARY KEY(productID)
);
CREATE TABLE category (
```

```
category VARCHAR(255),
 type VARCHAR(255),
 PRIMARY KEY(category, type)
CREATE TABLE warehouse (
 warehouseID VARCHAR(255),
 capacity FLOAT(2),
 PRIMARY KEY(warehouseID)
);
CREATE TABLE address (
 addressID VARCHAR(255),
 addressLine VARCHAR(255),
 state VARCHAR(99),
 city VARCHAR(99),
 zip INT,
 PRIMARY KEY(addressID)
);
```

Step two: Create weak entity

```
CREATE TABLE customer (
 custID VARCHAR(255),
 name VARCHAR(255),
 accountBalance INT,
 PRIMARY KEY(custID)
);
CREATE TABLE stuff (
 stuffID VARCHAR(255),
 name VARCHAR(255),
 jobTitlt VARCHAR(255),
 salary INT,
 PRIMARY KEY(stuffID)
);
CREATE TABLE supplier (
 supplierID VARCHAR(255),
 name VARCHAR(255),
 price FLOAT(2),
PRIMARY KEY(supplierID)
);
CREATE TABLE order (
 orderNumber VARCHAR(255),
 orderquantity INT,
 status VARCHAR(25),
 PRIMARY KEY(orderNumber)
);
CREATE TABLE pricing (
 state VARCHAR(99),
 parameter FLOAT(2),
PRIMARY KEY(state)
);
CREATE TABLE product (
 productID VARCHAR(255),
 productName VARCHAR(255),
 productInfo VARCHAR(255),
 productSize FLOAT(2),
 url VARCHAR(255),
 PRIMARY KEY(productID)
);
```

```
CREATE TABLE category (
 category VARCHAR(255),
 type VARCHAR(255),
 PRIMARY KEY(category, type)
);
CREATE TABLE warehouse (
 warehouseID VARCHAR(255),
 capacity FLOAT(2),
 PRIMARY KEY(warehouseID)
);
CREATE TABLE address (
 addressID VARCHAR(255),
 addressLine VARCHAR(255),
 state VARCHAR(99),
 city VARCHAR(99),
 zip INT,
 PRIMARY KEY(addressID)
);
CREATE TABLE creditcard (
 cardNumber INT,
 validDate DATE,
 addressID VARCHAR(255),
 custID VARCHAR(255),
 PRIMARY KEY(cardNumber, addressID, custID),
 FOREIGN KEY(addressID) REFERENCES address,
 FOREIGN KEY(custID) REFERENCES customer
)
```

Step three: no multiple attributes

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Step four: Create relationships
CREATE TABLE customer (
 custID VARCHAR(255).
 name VARCHAR(255),
 accountBalance INT,
 PRIMARY KEY(custID)
);
CREATE TABLE order (
 orderNumber VARCHAR(255),
 state VARCHAR(99),
 orderquantity INT,
 status VARCHAR(25),
 PRIMARY KEY(orderNumber),
 FOREIGN KEY(state) REFERENCES pricing,
 FOREIGN KEY(quantity) REFERENCES cart
);
CREATE TABLE supplier (
 supplierID VARCHAR(255),
 addressID VARCHAR(255),
 name VARCHAR(255),
 price FLOAT(2),
 PRIMARY KEY(supplierID),
 FOREIGN KEY(addressID) REFERENCES address
);
CREATE TABLE product (
 productID VARCHAR(255),
 supplierID VARCHAR(255),
 category VARCHAR(255),
 productName VARCHAR(255),
 productInfo VARCHAR(255),
 additionalInfo VARCHAR(255),
 productSize FLOAT(2),
 url VARCHAR(255),
 PRIMARY KEY(productID),
 FOREIGN KEY(supplierID) REFERENCES supplier,
 FOREIGN KEY(category) REFERENCES category
);
CREATE TABLE pricing (
 state VARCHAR(99),
 parameter FLOAT(2),
```

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PRIMARY KEY(state)
);
CREATE TABLE stuff (
 stuffID VARCHAR(255).
 addressID VARCHAR(255),
 name VARCHAR(255),
 jobTitlt VARCHAR(255),
 salary INT,
 PRIMARY KEY(stuffID),
 FOREIGN KEY(addressID) REFERENCES address
);
CREATE TABLE warehouse (
 warehouseID VARCHAR(255),
 addressID VARCHAR(255),
 capacity FLOAT(2),
 PRIMARY KEY(warehouseID),
 FOREIGN KEY(addressID) REFERENCES address
);
CREATE TABLE cart (
 custID VARCHAR(255),
 productID VARCHAR(255),
 cartquantity INT,
 orderNumber VARCHAR(255),
 PRIMARY KEY(custID, productID),
 FOREIGN KEY(custID) REFERENCES customer,
 FOREIGN KEY(productID) REFERENCES product,
 FOREIGN KEY(orderNumber) REFERENCES order
);
CREATE TABLE stock (
 warehouseID VARCHAR(255),
 productID VARCHAR(255),
 price FLOAT(2),
 PRIMARY KEY(warehouseID, productID),
 FOREIGN KEY(warehouseID) REFERENCES warehous,
 FOREIGN KEY(productID) REFERENCES product
);
CREATE TABLE delivery (
 custID VARCHAR(255),
 addressID VARCHAR(255),
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PRIMARY KEY(custID, addressID),
 FOREIGN KEY(custID) REFERENCES customer,
 FOREIGN KEY(addressID) REFERENCES address
CREATE TABLE category (
 category VARCHAR(255),
 type VARCHAR(255),
 PRIMARY KEY(category, type)
);
CREATE TABLE address (
 addressID VARCHAR(255),
 addressLine VARCHAR(255),
 state VARCHAR(99),
 city VARCHAR(99),
 zip INT,
 PRIMARY KEY(addressID)
);
```