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7.1.3

Product(maker, model, type)

PC(model, speed, ram, hd, price)

Laptop(model, speed, ram, hd, screen, price)

Printer(model, color, type, price)

```
CREATE TABLE Product (  
    maker VARCHAR(30),  
    model INT PRIMARY KEY,  
    type VARCHAR(30)
```

AUTBER

);

```
CREATE TABLE PC (  
    model INT, PRIMARY KEY, REFERENCES Product(model),  
    speed FLOAT,  
    ram FLOAT,  
    hd FLOAT,  
    price INT
```

);

```
CREATE TABLE Laptop (  
    model INT, PRIMARY KEY, REFERENCES Product(model),  
    speed FLOAT,  
    ram FLOAT  
    hd FLOAT,  
    screen FLOAT,  
    price INT
```

);

```
CREATE TABLE Printer (  
    model INT, PRIMARY KEY, REFERENCES Product(model)  
    color BOOLEAN,  
    type VARCHAR(30),  
    price INT
```

);

7.2.2

a)

```
CREATE TABLE Laptop (  
    model INT, PRIMARY KEY, REFERENCES Product(model),  
    speed FLOAT CHECK (speed >= 2.0),  
    ram FLOAT  
    hd FLOAT,
```

```

        screen FLOAT,
        price INT
    );

b)
CREATE TABLE Printer (
    model INT, PRIMARY KEY REFERENCES Product(model)
    color BOOLEAN,
    type VARCHAR(30) CHECK (type = 'laser' OR type = 'ink-jet' OR type = 'bubble-jet',
    price INT
);

```

foreign key see sol

```

c)
CREATE TABLE Product (
    maker VARCHAR(30),
    model INT PRIMARY KEY,
    type VARCHAR(30) CHECK (type = "PC" OR type = "Laptop" OR type = "Printer")
);

d)
CREATE TABLE Product (
    maker VARCHAR(30),
    model INT PRIMARY KEY,
    type VARCHAR(30) CHECK (type IN ((SELECT model FROM PC)
    UNION (SELECT model FROM Laptop)
    UNION (SELECT model FROM printer))
);

```