```
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Class: Database I
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Homework #9

```
7.1.3
    CREATE TABLE Product (
        maker char (20),
        model int PRIMARY KEY,
        type char (20),
     );
     CREATE TABLE IC (
        model int,
        speed real,
         ram int,
        hd int,
         price int,
         FOREIGN KEY (model) REFERENCES Product (mode)
     ),
    CREATE TABLE Laptop (
       model int,
        speed real,
        ram int,
       hd int,
        screen real,
       price int,
       FUREIGN KEY (model) REFERENCES Induct (model)
    );
```

```
CREATE TABLE Printer (
         model int,
          color boolean,
          type char (20),
          price int,
          FOREIGN KEY (model) REFERENCES Product (model)
      );
7.2.2
 a/ CREATE TABLE Laptop
         model int PRIMARY KEY,
         speed real CHECK (speed >= 2.0),
          ram int,
         hd int,
          screen real,
          price int,
      );
 b/ CREATE TABLE Printer (
          model int IRIHARY KEY,
          culor boolean,
          type char (20) CHECK (type IN ("laser", "ink-jet", "bubble-jet")),
           price int,
           FOREIGN KEY (model) REFERENCES Product (model)
 e/ CREATE TABLE Product (
        maker char (20),
        model int PRIMARY KEY,
        type char (20) CHECK (type IN ( pc), < laptop>, < printer>))
    );
```

```
CREATE TABLE Product (
         maker char (20),
         model int CHECK (model IN (select model from IC)
                           UNION (select model from Laptop)
                          MNION (select model from Printer)),
        type char (20),
7.4.1
a/ CREATE ASSERTION CHECK
    ( NOT EXISTS
        (( select maker from Procluct JOIN IC
          INTERSECT
          (select maker from Product JOIN Laptop))
    );
7.5.2
b/ CREATE TRIGGER New Printer Trigger
     AFTER INSERT ON Printer
     REFERENCES NEW ROW AS NEWROW,
                   NEW TABLE AS New Stuff,
     FOR EACH ROW
      WHEN NOT EXIST (select * from Product where Product model = New Row model)
     DELETE FROM Printer
      WHERE (model, color, type, price) IN New Stuff;
```

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