EXERCISE: ONE MORE TABLE CREATION

LET'S SAY WE HAVE A TABLE WITH SALES DATA COLUMNS ARE NAMED 'STORELOCATION', 'PRODUCT', 'DATE', 'REVENUE'

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33
Bellandur	Nutella	January 18,2016	7,455.67
Bellandur	Peanut Butter	January 18,2016	5,316.89
Bellandur	Milk	January 18,2016	2,433.76
Koramangala	Bananas	January 18,2016	9,456.01
Koramangala	Nutella	January 18,2016	3,644.33
Koramangala	Peanut Butter	January 18,2016	8,988.64
Koramangala	Milk	January 18,2016	1,621.58

THIS IS A TABLE NAMED 'SALES_DATA'

WHAT WOULD THE SQL CREATE TABLE STATEMENT FOR A TABLE LIKE THIS LOOK LIKE?..

StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33

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StoreLocation	Product	Date	Revenue
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CREATE TABLE Sales Data
StoreLocation VARCHAR (30) NOT NULL,
Product VARCHAR (30) NOT NULL,
Date DATE NOT NULL,
Revenue DEC(10,2) NOT NULL DEFAULT 0.0,
PRIMARY KEY (StoreLocation, Product, Date)
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WHAT WOULD THE SQL CREATE TABLE STATEMENT FOR A TABLE LIKE THIS LOOK LIKE?..

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CREATE TABLE Sales Data

THIS BIT IS PRETTY STANDARD.

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StoreLocation	Product	Date	Revenue
Bellandur	Bananas	January 18,2016	8,236.33

```
CREATE TABLE Sales_Data
```

BUT THIS IS INTERESTING!

```
StoreLocation VARCHAR(30) NOT NULL, Product VARCHAR(30) NOT NULL, Date DATE NOT NULL,
```

```
Revenue DEC(10,2) NOT NULL DEFAULT 0.0,
```

```
PRIMARY KEY (StoreLocation, Product, Date)
```

WHAT WOULD THE SQL CREATE TABLE STATEMENT FOR A TABLE LIKE THIS LOOK LIKE?..

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PEC(10,2)
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THIS MEANS THIS COLUMN CAN HOLD NUMBERS WITH UPTO 10 DIGITS BEFORE THE DECIMAL POINT, AND 2 DIGITS AFTER

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10 PIGITS! THAT'S A LOT OF BANANAS.

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Date DATE NOT NULL,

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VALUE!

```
OOH! A PEFAULT
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Revenue DEC(10,2) NOT NULL DEFAULT 0.0, PRIMARY KEY (StoreLocation, Product, Date)

OOH! A PEFAULT VALUE!

StoreLocation	Product	Date	Revenue
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Revenue DEC(10,2) NOT NULL DEFAULT 0.0

BY SPECIFYING A PEFAULT VALUE (OF 0.0), WE TELL THE DBMS WHAT TO DO IF THE VALUE POES NOT EXIST

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> DEFAULT VALUES ARE USUALLY USED WHEN DATA MIGHT NOT BE AVAILABLE, BUT NULLS ARE NOT ALLOWED IN THE TABLE

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BY SPECIFYING A DEFAULT VALUE (OF 0.0), WE TELL THE DBMS WHAT TO DO IF THE VALUE DOES NOT EXIST

DEFAULT VALUES ARE USUALLY USED WHEN DATA MIGHT NOT BE AVAILABLE, BUT NULLS ARE NOT ALLOWED IN THE TABLE

IF AN INSERT STATEMENT SKIPS THE VALUE OF THIS COLUMN, THE DEFAULT VALUE WILL BE ASSIGNED INSTEAD OF NULL

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OUR FIRST PATE COLUMN!

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OUR FIRST PATE COLUMN!

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YOU CAN INSERT A PATE USING STRINGS (ENCLOSED IN SINGLE QUOTES) LIKE

\January-18-2016'

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118-1-20161 11-18-20161

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YOU CAN INSERT A PATE USING STRINGS (ENCLOSED IN SINGLE QUOTES) LIKE

DBMS ARE USUALLY VERY GOOD ABOUT ACCEPTING AND CONVERTING STRINGS TO DATES AND TIMES

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A MULTI-ATTRIBUTE PRIMARY KEY!

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THIS MEANS THAT THE COMBINATION OF (STORELOCATION, PRODUCT, DATE) MUST BE UNIQUE

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SUCH KEYS ARE CALLED MULTI-ATTRIBUTE, MULTI-COLUMN, OR COMPOSITE KEYS

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OKEY-DOKEY - SO HOW CAN WE CREATE DATABASES AND TABLES, AND PUT STUFF INTO THEM?

AHA! THAT'S AN AMAZING QUESTION.

IN FACT, ITS THREE AMAZING QUESTIONS

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CREATE DATABASES?

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