Subject: [solved, i guess]difficulty with sqlite3 schema Posted by brokndodge on Thu, 15 Apr 2010 22:15:38 GMT

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i'm having some trouble with nested tables in an sqlite3 schema file. maybe nested tables isn't the way to go, but i just can't predict the number of needed rows to set my db up any other way.

```
here is what i have:
TABLE_(prospect_detail)
         (customer number) PRIMARY KEY //AUTO INCREMENT
STRING_
            (first name, 30)
STRING
            (middle name, 30)
            (last_name, 30)
STRING
STRING_ (suffix_name, 5)
STRING_
           (address_1, 50)
STRING_
            (address_2, 50)
STRING
            (city, 30)
STRING
           (state, 2)
INT (zip)
INT ARRAY_ (phone_1, 3)
INT_ARRAY_ (phone_2, 3)
INT_ARRAY_ (phone_3, 3)
INT_ARRAY_ (phone_w, 3)
INT_ARRAY_ (ssn, 3)
INT_ (beacon)
TABLE_(documents)
BOOL_ (docs)
END TABLE
TABLE (employers)
INT (employer number) PRIMARY KEY //AUTO INCREMENT
STRING_ (employer_name, 50)
INT_ARRAY_ (employer_phone_1, 3)
 INT_ARRAY_ (employer_phone_2, 3)
 STRING_ (contact, 50)
STRING_ (employer_addy_1, 50)
 STRING_ (employer_addy_2, 50)
 STRING (employer city, 30)
 STRING (employer st, 2)
STRING_ (employer_zip, 5)
DATE (hire date)
DATE_ (quit_date)
BOOL_ (is_currant)
DOUBLE_ (gross_monthly_income)
END TABLE
BOOL (is sales)
BOOL (is service)
```

```
TABLE_(vehicles_owned)
STRING_ (vin, 17) PRIMARY_KEY
INT_ (year)
STRING_ (make, 15)
STRING_ (model, 30)
STRING_ (trim_package, 10)
STRING_ (engine, 10)
INT_ (miles)
DOUBLE_ (acv)
DOUBLE_ (show)
END_TABLE
INT_ (wants) //this should be a stock #
END_TABLE
```

is it possible to nest tables in an sqlite3 schema? how would I go about trying to accomplish this?

```
Subject: Re: difficulty with sqlite3 schema
Posted by brokndodge on Sun, 18 Apr 2010 02:09:27 GMT
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```

i've studied a couple of large database structures and come up with this solution:

```
TABLE_(prospect_detail)
INT
         (prospect id)
                        PRIMARY KEY AUTO INCREMENT
STRING_
            (first_name, 30)
STRING
            (middle_name, 30)
            (last_name, 30)
STRING
STRING_ (suffix_name, 5)
STRING_
            (address 1, 50)
STRING_
            (address_2, 50)
STRING
            (city, 30)
STRING
            (state, 2)
INT_ (zip)
INT ARRAY (phone 1, 3)
INT_ARRAY_ (phone_2, 3)
INT_ARRAY_ (phone_3, 3)
INT_ARRAY_ (phone_w, 3)
INT_ARRAY_ (ssn, 3)
INT_ (beacon)
BOOL_ (is_sales)
BOOL_ (is_service)
INT_ (wants) //this should be a stock #
END_TABLE
TABLE_(documents)
              (doc_id)
                              PRIMARY_KEY AUTO_INCREMENT
    INT
    INT
              (prospect_id)
                                REFERENCES(prospect_detail.prospect_id)
```

```
BLOB_ (docs)
END TABLE
TABLE_(employers)
INT_ (employer_number) PRIMARY_KEY AUTO_INCREMENT
    INT
              (prospect_id)
                               REFERENCES(prospect_detail.prospect_id)
STRING (employer name, 50)
INT_ARRAY_ (employer_phone_1, 3)
INT_ARRAY_ (employer_phone_2, 3)
STRING_ (contact, 50)
STRING_ (employer_addy_1, 50)
STRING_ (employer_addy_2, 50)
STRING_ (employer_city, 30)
STRING_ (employer_st, 2)
STRING_ (employer_zip, 5)
DATE_ (hire_date)
DATE_ (quit_date)
BOOL_ (is_currant)
DOUBLE_ (gross_monthly_income)
END TABLE
TABLE (vehicles owned)
STRING_ (vin, 17) PRIMARY_KEY
              (prospect_id)
    INT
                               REFERENCES(prospect_detail.prospect_id)
INT_ (year)
STRING_ (make, 15)
STRING_ (model, 30)
STRING_ (trim_package, 10)
STRING (engine, 10)
INT_ (miles)
DOUBLE_ (acv)
DOUBLE_ (show)
END_TABLE
```