
Subject: Please help the SQL-challenged

Posted by [guido](#) on Thu, 17 May 2007 13:25:29 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

I'm writing a sqlite-based recipe database.

Now I'm stuck a bit due to upp's total lack of documentation in this regard and this being my first contact with SQL.

I studied the sql samples, but none shows how to do what I need.

Please somebody have a look at the schema I came up with:

```
TABLE_(RECIPES)
INT_ (ID) PRIMARY_KEY AUTO_INCREMENT
STRING_ (TITLE, 1024)
STRING_ (DESCRIPTION, 4096)
STRING_ (SOURCE, 1024)
STRING_ (PREPARATION, 30000)
INT_ (RATING)
DOUBLE_ (SERVINGS)
INT_ (PREPTIME)
INT_ (COOKTIME)
BLOB_ (PHOTO)
BLOB_ (THUMB)
END_TABLE

TABLE_(INGREDIENTS)
INT_ (ID) PRIMARY_KEY AUTO_INCREMENT
STRING_ (HEADER, 1024)
INT_ (AMOUNT)
INT_ (POSITION)
INT_ (INGREDIENT_ID) REFERENCES(INGREDIENT_DICT)
INT (UNIT_ID) REFERENCES(UNIT_DICT)
END_TABLE

TABLE_(CATEGORIES)
INT_ (ID) PRIMARY_KEY AUTO_INCREMENT
INT (CAT_ID) REFERENCES(CATEGORIES_DICT) UNIQUE
END_TABLE

TABLE_(CATEGORY_DICT)
INT_ (CAT_ID) PRIMARY_KEY
STRING_ (CATEGORY, 64) UNIQUE
END_TABLE

TABLE_(UNIT_DICT)
INT_ (UNIT_ID) PRIMARY_KEY
```

```
STRING_ (UNIT, 64) UNIQUE
END_TABLE
```

```
TABLE_(INGREDIENT_DICT)
INT_ (INGREDIENT_ID) PRIMARY_KEY
STRING_ (INGREDIENT, 1024) UNIQUE
END_TABLE
```

First I wanted to know if the schema makes sense to you.

Further, could someone please draft the upp sql statements for adding/fetching CATEGORIES and INGREDIENTS.

I figured out a dialog for the main RECIPES table columns, but struggling badly with the latter.

Guido

Subject: Re: Please help the SQL-challenged
Posted by [mirek](#) on Fri, 18 May 2007 08:16:53 GMT
[View Forum Message](#) <> [Reply to Message](#)

Sounds quite OK to me.

```
SQL * Insert(CATEGORIES)
      (CAT_ID, some_value);
```

```
SQL * Update(CATEGORIES)(CAT_ID, update_value).Where(ID == key);
```

```
Sql sql;
sql * Select(ID, CAT_ID).From(CATEGORIES).Where(... some condition ...);
```

now the loop can look like

```
int id, cat_id;
while(sql.Fetch(id, cat_id)) ...
```

or

```
while(sql.Fetch()) { .. sql[ID] .. sql[0] .. }
```

(you can use either ids or indexes).

Alternatively, you can use S_CATEGORIES structure to work with the whole record.
