Subject: How can .sch express a many-to-many relationship ?
Posted by jfranks on Thu, 19 Jan 2017 22:48:07 GMT
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Fellow developers,

I've been tasked with implementing a schema using SQLite + Upp.
Sql is not my strong suit, so I used a tool that converted an ERD --> DDL.
As I discovered, UPP has it's own .sch language representation that has benefits and DDL is derived from.

However, I could not find examples of a many-to-many relationship being expressed in .sch and am somewhat over-loaded with all the tasks ahead of me.

I figured that I could just convert by hand the DDL and produce a representative .sch -- and this worked except I could not figure out the many-to-many expressions needed in .sch

The following is a minimal DDL example that I cannot figure out how to do in .sch.

Can someone give me some pointers on this?

Thank you.

-- Jeff Franks

---------- Example DDL for a many-to-many relationship ----------

```
--
-- multiple user accounts w/ the possibility of multiple roles
--

CREATE TABLE USER_ACCOUNT (
  ID        INTEGER PRIMARY KEY,
  NAME      varchar(255));

CREATE TABLE ROLE (
  ID         INTEGER PRIMARY KEY,
  ASPECT     integer(2),
  DESCRIPTION varchar(255));

CREATE TABLE USER_ROLE (
  USER_ACCOUNT_ID integer(10),
  ROLE_ID        integer(10),
  PRIMARY KEY(USER_ACCOUNT_ID, ROLE_ID),
  FOREIGN KEY(USER_ACCOUNT_ID) REFERENCES USER_ACCOUNT(ID),
  FOREIGN KEY(ROLE_ID) REFERENCES ROLE(ID));
```

Subject: Re: How can .sch express a many-to-many relationship ?
Posted by mirek on Tue, 07 Mar 2017 12:03:55 GMT
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There might be errors, doing it from the head:

```
TABLE_(USER_ACCOUNT)
  ISERIAL  (ID) PRIMARY_KEY
  STRING_  (NAME, 255)
END_TABLE

TABLE_(ROLE)
  ISERIAL  (ID) PRIMARY_KEY
  INT_     (ASPECT)
  STRING_  (DESCRIPTION, 255)
END_TABLE

TABLE_(USER_ROLE)
  INT_     (USER_ACCOUNT_ID) REFERENCES(USER_ACCOUNT)
  INT_     (ROLE_ID) REFERENCES(ROLE)
  DUAL_PRIMARY_KEY (USER_ACCOUNT_ID, ROLE_ID)
END_TABLE
```

(I suspect it is too late for you to help, but putting it here for future reference...)