

https://github.com/lixy1979/java_week_08
https://github.com/lixy1979/java_week_07 for projects-schema.sql
<https://youtu.be/2Ta8nPijctY>

```
DROP TABLE IF EXISTS project_category;

DROP TABLE IF EXISTS step;

DROP TABLE IF EXISTS material;

DROP TABLE IF EXISTS category;

DROP TABLE IF EXISTS project;

CREATE TABLE project(

project_id INT AUTO_INCREMENT NOT NULL,

project_name VARCHAR(128) NOT NULL,

estimated_hours DECIMAL(7,2),

actual_hours DECIMAL(7,2),

difficulty INT,

notes TEXT,

PRIMARY KEY (project_id)

);

CREATE TABLE material(

material_id INT AUTO_INCREMENT NOT NULL,

project_id INT NOT NULL,

material_name VARCHAR(128) NOT NULL,

num_required INT,

cost DECIMAL(7,2),

PRIMARY KEY (material_id),

FOREIGN KEY (project_id) REFERENCES project(project_id) ON DELETE
CASCADE

);

CREATE TABLE step(
```

```
step_id INT AUTO_INCREMENT NOT NULL,

project_id INT NOT NULL,

step_text TEXT NOT NULL,

step_order INT NOT NULL,

PRIMARY KEY (step_id),

FOREIGN KEY (project_id) REFERENCES project(project_id) ON DELETE
CASCADE

);

CREATE TABLE category(

category_id INT AUTO_INCREMENT NOT NULL,

category_name VARCHAR(128) NOT NULL,

PRIMARY KEY (category_id)

);

CREATE TABLE project_category(

project_id INT NOT NULL,

category_id INT NOT NULL,

FOREIGN KEY (category_id) REFERENCES category(category_id) ON DELETE
CASCADE,

FOREIGN KEY (project_id) REFERENCES project(project_id) ON DELETE
CASCADE,

UNIQUE KEY (category_id, project_id)

);
```

