

Week 8 Assignment Ujjval Patel

```
DROP TABLE IF EXISTS project_category;
```

```
DROP TABLE IF EXISTS category;
```

```
DROP TABLE IF EXISTS step;
```

```
DROP TABLE IF EXISTS material;
```

```
DROP TABLE IF EXISTS project;
```

```
CREATE TABLE project (  
  project_id INT AUTO_INCREMENT NOT NULL PRIMARY KEY,  
  project_name VARCHAR(128) NOT NULL,  
  estimated_hours decimal(7,2),  
  actual_hours decimal(7,2),  
  difficulty INT,  
  notes TEXT  
);
```

```
CREATE TABLE material (  
  material_id INT AUTO_INCREMENT NOT NULL PRIMARY KEY,  
  project_id INT,  
  FOREIGN KEY (project_id) REFERENCES project (project_id),  
  material_name VARCHAR(128) NOT NULL,  
  num_required VARCHAR(128),  
  cost decimal(7,2)  
);
```

```
CREATE TABLE step (  

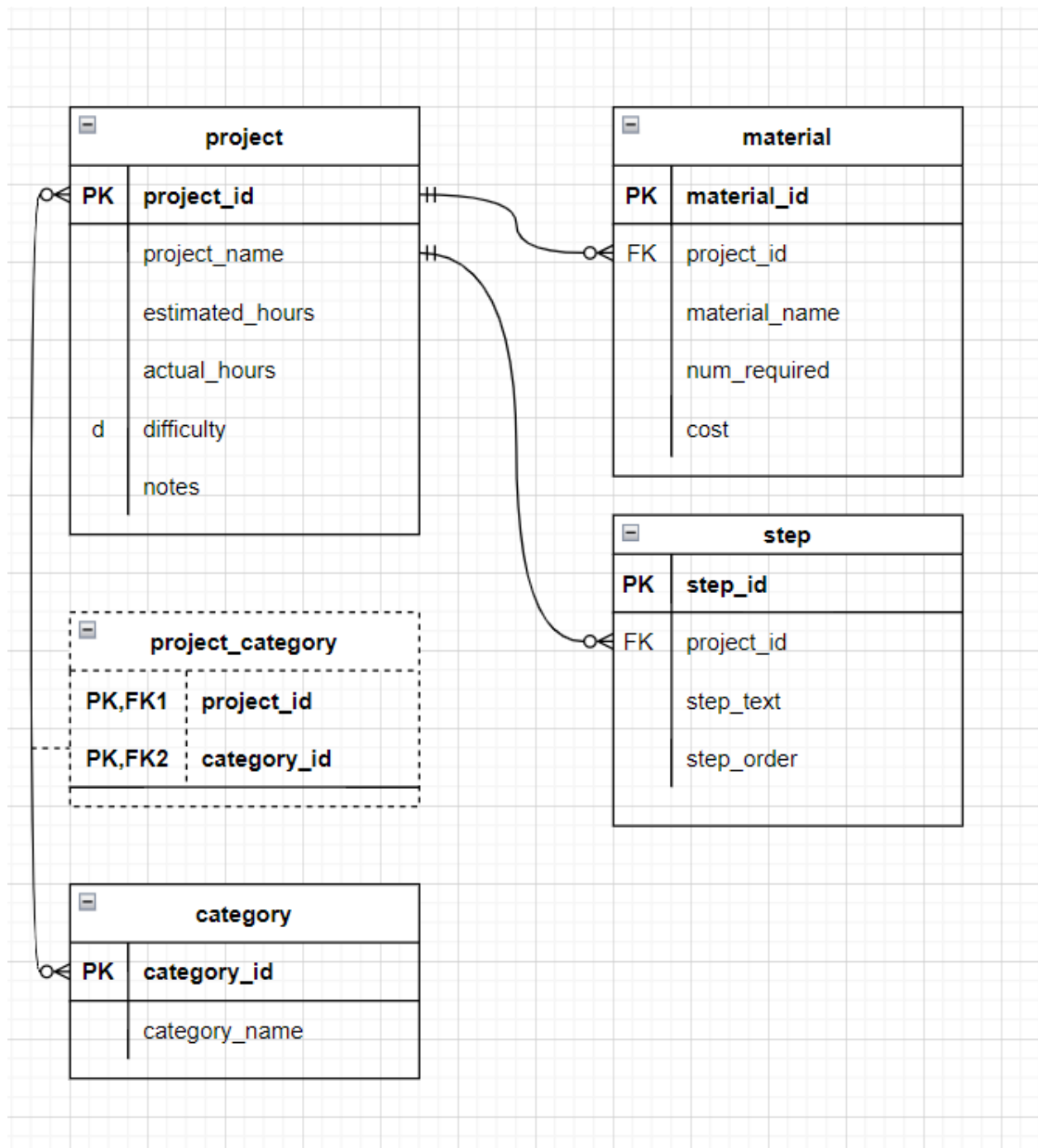
```


```
step_id INT AUTO_INCREMENT NOT NULL PRIMARY KEY,  
project_id INT,  
FOREIGN KEY (project_id) REFERENCES project (project_id) ON DELETE CASCADE,  
step_text TEXT NOT NULL,  
step_oredr INT NOT NULL  
);
```


```
CREATE TABLE category (  
category_id INT NOT NULL PRIMARY KEY,  
category_name VARCHAR(128) NOT NULL  
);
```


```
CREATE TABLE project_category (  
project_id INT,  
FOREIGN KEY (project_id) REFERENCES project (project_id) ON DELETE CASCADE,  
UNIQUE KEY (project_id, category_id),  
category_id INT,  
FOREIGN KEY (category_id) REFERENCES category (category_id) ON DELETE CASCADE,  
UNIQUE KEY (category_id, project_id)  
);
```


E-R Diagram




 DBBeaver Sample Database (SQLite)


 localhost - *localhost:3306*


▼  Databases


▼  projects

▼  Tables


>  category


>  material


>  project

>  project_category


>  step

>  Views

>  Indexes

>  Procedures

>  Triggers

>  Events

>  recipes

>  sys