

TABLE: User

| Name | Type | Size | Allow Null | Primary Key |
|------------|---------|------|------------|-------------|
| uID | int | 32 | NO | YES |
| username | varchar | 20 | NO | NO |
| hashphrase | varchar | 100 | NO | NO |

```

create table User (
    uID int not null AUTO_INCREMENT,
    username varchar(20) not null,
    hashphrase varchar(100) not null,
    PRIMARY KEY (uID)
);

```

TABLE: albums

| Name | Type | Size | Allow Null | Primary Key | Friendly Key |
|---------------|---------|------|------------|-------------|--------------|
| aID | int | 32 | NO | YES | NO |
| aName | varchar | 20 | NO | NO | NO |
| aDateCreate | Date | | NO | NO | NO |
| aDateModified | Date | | NO | NO | NO |
| aComment | varchar | 200 | YES | NO | NO |
| uID | int | 50 | NO | NO | YES |

```

CREATE TABLE albums
(
    aID int NOT NULL AUTO_INCREMENT,
    aName varchar(20) NOT NULL,
    aDateCreated date NOT NULL,
    aDateModified date NOT NULL,
    aComment varchar(200),
    uID int NOT NULL,

```

```

PRIMARY KEY (aID),
FOREIGN KEY (uID) REFERENCES User(uID)
);

```

TABLE: photos

| Name | Type | Size | Allow Null | Primary Key | Friendly Key |
|-------|---------|------|------------|-------------|--------------|
| pID | int | 32 | NO | YES | NO |
| pName | varchar | 20 | NO | NO | NO |
| pURL | varchar | 20 | NO | NO | NO |
| pDesc | varchar | 200 | YES | NO | NO |
| pStar | int | 32 | NO | NO | NO |
| | | | | | |

```

CREATE TABLE photos
(
  pID int NOT NULL AUTO_INCREMENT,
  pName varchar(20) NOT NULL,
  pURL varchar(20) NOT NULL,
  pDesc varchar(200),
  pStar int NOT NULL,
  PRIMARY KEY (pID)
);

```

Table: AlbumsToPhotos

| Name | Type | Size | Allow Null | Primary Key | Friendly Key |
|------|------|------|------------|-------------|--------------|
| id | int | 32 | NO | YES | NO |
| aID | int | 32 | NO | NO | YES |
| pID | int | 32 | NO | NO | YES |

```
create table AlbumsToPhotos (  
  id int not null AUTO_INCREMENT,  
  aID int not null,  
  pID int not null,  
  PRIMARY KEY(id),  
  FOREIGN KEY (aID) REFERENCES albums(aID),  
  FOREIGN KEY (pID) REFERENCES photos(pID)  
);
```

```
insert into photos value(NULL, "1", "1.jpg", "1", 1);  
insert into photos value(NULL, "2", "2.jpg", "2", 1);  
insert into photos value(NULL, "3", "3.jpg", "3", 1);  
insert into photos value(NULL, "4", "4.jpg", "4", 1);  
insert into photos value(NULL, "5", "5.jpg", "5", 1);  
insert into photos value(NULL, "6", "6.jpg", "6", 1);  
insert into photos value(NULL, "7", "7.jpeg", "7", 1);  
insert into photos value(NULL, "8", "8.jpg", "8", 1);  
insert into photos value(NULL, "9", "9.jpg", "9", 1);  
insert into photos value(NULL, "10", "10.jpg", "10", 1);
```

```
insert into albums values(NULL, "album1", CURRENT_TIMESTAMP, CURRENT_TIMESTAMP,  
'wonderful', 1);
```

```
insert into albums values(NULL, "album2", CURRENT_TIMESTAMP, CURRENT_TIMESTAMP,  
'good', 1);
```

```
insert into AlbumsToPhotos values(NULL, 2, 3);  
insert into AlbumsToPhotos values(NULL, 2, 4);
```

```
insert into AlbumsToPhotos values(NULL, 2, 5);  
insert into AlbumsToPhotos values(NULL, 2, 6);  
insert into AlbumsToPhotos values(NULL, 2, 7);
```

```
insert into AlbumsToPhotos values(NULL, 3, 7);  
insert into AlbumsToPhotos values(NULL, 3, 8);  
insert into AlbumsToPhotos values(NULL, 3, 9);  
insert into AlbumsToPhotos values(NULL, 3, 10);  
insert into AlbumsToPhotos values(NULL, 3, 11);  
insert into AlbumsToPhotos values(NULL, 3, 12);
```

Database name: info230_SP16_zl479sp16

User name: zl479sp16

Password: liuzhidong

MileStone2

I add one more table AlbumsToPhotos to build ManyToMany relationship between albums and photos.

The image exists in both albums: **img/5.jpg**

The image exists in only one album: **img/1.jpg**

This website looks too simple now because recently I am busy for preparing prelims. In spring festival I will have time to make a better design for P3_3.