create database test;

use test;

-- 創建課程類別表格(lesson\_type)

create table lesson\_type(

type\_id int auto\_increament primary key,

type\_name varchar(50)

);

CREATE TABLE IF NOT EXISTS Categories (

category\_id INT AUTO\_INCREMENT PRIMARY KEY,

category\_name VARCHAR(255)

);

-- 創建課程照片表格(coach\_img)

create table coach\_img(

coachImg\_id int autoincrement primary key,

coach\_img varchar(200)

);

-- 創建教練表格(coach)

create table coach(

coach\_id int autoincrement primary key,

coach\_name varchar(10),

--coach\_lang(擅長語言)

coach\_phone int,

coach\_gender int,

coach\_info text,

coach\_price int,

create\_date date,

--coach\_cover varchar(100),

typeId(擅長類型) int,

foreign key (typeId) references lesson\_type(type\_id),

);

-- 創建教練與類別對應表格(coach\_skill)

create table coach\_skill(

coachId int,

typeId int,

foreign key (coachId) references coach(coach\_id)

foreign key (typeId) references lesson\_type(type\_id)

);

-- 創建課程照片表格(lesson\_img)

create table lesson\_img(

img\_id int autoincrement primary key,

lesson\_img varchar(200)

);

-- 創建課程時間表格(lesson\_time)

create table lesson\_time(

time\_id int autoincrement primary key,

lesson\_date date,

lesson\_time time

);

-- 創建課程表格(lesson)

create table lesson(

lesson\_id int auto\_increament primary key,

leson\_name varchar(50),

lesson\_state(上架狀態) int,

lesson\_price int,

lesson\_desc varchar(400),

typeId int,

imgId int,

timeId int,

--gymId int,

coachId int,

foreign key (typeId) references lesson\_type(type\_id),

foreign key (imgId) references lesson\_img(img\_id),

foreign key (timeId) references lesson\_time(time\_id),

--foreign key (gymId) references gym(gym\_id),

foreign key (coachId) references coach(coach\_id)

);

CREATE TABLE IF NOT EXISTS Courses (

course\_id INT AUTO\_INCREMENT PRIMARY KEY,

course\_name VARCHAR(255),

category\_id INT,

FOREIGN KEY (category\_id) REFERENCES Categories(category\_id)

);

-- 創建課程與類別對應表格(lesson\_tag)

create table lesson\_tag(

lessonId int,

typeId int,

foreign key (lessonId) references lesson(lesson\_id)

foreign key (typeId) references lesson\_type(type\_id)

);

CREATE TABLE IF NOT EXISTS Course\_Category\_Mapping (

course\_id INT,

category\_id INT,

FOREIGN KEY (course\_id) REFERENCES Courses(course\_id),

FOREIGN KEY (category\_id) REFERENCES Categories(category\_id),

PRIMARY KEY (course\_id, category\_id)

);

這裡的primary key是為了避免同一堂課程裡面出現兩次伸展或是兩次心肺的情形

-- 插入課程類別資料

INSERT INTO Categories (category\_name) VALUES ('伸展'), ('心肺');

-- 插入課程資料

INSERT INTO Courses (course\_name, category\_id) VALUES

('瑜珈課程A', 1), ('瑜珈課程B', 2), ('瑜珈課程C', 1), ('happy\_3', 1), ('happy\_3', 2);

-- 插入課程與類別對應資料

INSERT INTO Course\_Category\_Mapping (course\_id, category\_id) VALUES

(1, 1), (2, 2), (3, 1), (4, 1), (5, 2);

-- 查詢課程及對應的所有類別

SELECT Courses.course\_name, GROUP\_CONCAT(Categories.category\_name) AS category\_names

FROM Courses

JOIN Course\_Category\_Mapping ON Courses.course\_id = Course\_Category\_Mapping.course\_id

JOIN Categories ON Course\_Category\_Mapping.category\_id = Categories.category\_id

GROUP BY Courses.course\_name;

select \* from Categories;

select \* from Courses;

select \* from Course\_Category\_Mapping;

一張含有 文字, 字型, 螢幕擷取畫面, 數字 的圖片

自動產生的描述