資料庫期末作業

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以下範例使用411077022的資料庫

1. ER圖一張含有 寫生, 白色, 圖表, 樣式 的圖片

   自動產生的描述
2. 實體關聯圖

一張含有 文字, 收據, 圖表, 方案 的圖片

自動產生的描述

1. 建表

Bank:

CREATE TABLE bank (

bank\_id int(11) NOT NULL AUTO\_INCREMENT,

bank\_code varchar(256) NOT NULL,

bank\_name varchar(256) NOT NULL,

PRIMARY KEY (`bank\_id`),

UNIQUE KEY bank\_code\_UNIQUE (`bank\_code`)

) ENGINE=InnoDB AUTO\_INCREMENT=47 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Cart:

CREATE TABLE cart (

id int(11) NOT NULL,

specification\_id int(11) DEFAULT NULL,

group\_name varchar(256) DEFAULT NULL,

amount int(11) NOT NULL DEFAULT 1,

cost int(11) NOT NULL DEFAULT 0,

KEY id\_idx (`id`),

CONSTRAINT id FOREIGN KEY (`id`) REFERENCES user (`id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Item:

CREATE TABLE cart (

id int(11) NOT NULL,

specification\_id int(11) DEFAULT NULL,

group\_name varchar(256) DEFAULT NULL,

amount int(11) NOT NULL DEFAULT 1,

cost int(11) NOT NULL DEFAULT 0,

KEY id\_idx (`id`),

CONSTRAINT id FOREIGN KEY (`id`) REFERENCES user (`id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Item\_group:

CREATE TABLE item\_group (

group\_name varchar(256) NOT NULL,

specification\_id int(11) NOT NULL,

group\_price int(11) DEFAULT NULL,

group\_amount int(11) NOT NULL,

KEY specification\_id\_fkey\_idx (`specification\_id`),

CONSTRAINT specification\_id\_fkey FOREIGN KEY (`specification\_id`) REFERENCES specification (`specification\_id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Itme\_order:

CREATE TABLE item\_order (

specification\_id int(11) DEFAULT NULL,

group\_name varchar(256) DEFAULT NULL,

amount int(11) NOT NULL,

order\_id int(11) NOT NULL,

KEY specification\_id\_idx (`specification\_id`),

KEY order\_id\_idx (`order\_id`),

KEY group\_name\_fkey\_idx (`group\_name`),

CONSTRAINT order\_id FOREIGN KEY (`order\_id`) REFERENCES order (`order\_id`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT specification\_id FOREIGN KEY (`specification\_id`) REFERENCES specification (`specification\_id`) ON DELETE NO ACTION ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Item\_type:

CREATE TABLE item\_type (

item\_id int(11) NOT NULL,

type\_id int(11) NOT NULL,

KEY item\_id\_fkey\_idx (`item\_id`),

KEY type\_id\_fkey\_idx (`type\_id`),

CONSTRAINT item\_id\_fkey FOREIGN KEY (`item\_id`) REFERENCES item (`item\_id`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT type\_id\_fkey FOREIGN KEY (`type\_id`) REFERENCES type (`type\_id`) ON DELETE CASCADE ON UPDATE CASCADE

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Manufacturer:

CREATE TABLE manufacturer (

manufacturer\_id int(11) NOT NULL AUTO\_INCREMENT,

manufacturer\_name varchar(256) NOT NULL,

PRIMARY KEY (`manufacturer\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=10 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Order:

CREATE TABLE order (

order\_id int(11) NOT NULL AUTO\_INCREMENT,

sum int(11) NOT NULL,

paying\_id int(11) NOT NULL,

paying\_status\_id int(11) NOT NULL,

paying\_date datetime DEFAULT NULL,

order\_status\_id int(11) NOT NULL,

PRIMARY KEY (`order\_id`),

KEY paying\_id\_fkey\_idx (`paying\_id`),

KEY paying\_status\_id\_fkey\_idx (`paying\_status\_id`),

KEY order\_status\_id\_fkey\_idx (`order\_status\_id`),

CONSTRAINT order\_status\_id\_fkey FOREIGN KEY (`order\_status\_id`) REFERENCES order\_status (`order\_status\_id`) ON DELETE NO ACTION ON UPDATE CASCADE,

CONSTRAINT paying\_id\_fkey FOREIGN KEY (`paying\_id`) REFERENCES paying\_type (`paying\_id`) ON DELETE NO ACTION ON UPDATE CASCADE,

CONSTRAINT paying\_status\_id\_fkey FOREIGN KEY (`paying\_status\_id`) REFERENCES paying\_status (`paying\_status\_id`) ON DELETE NO ACTION ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Order\_status:

CREATE TABLE order\_status (

order\_status\_id int(11) NOT NULL AUTO\_INCREMENT,

order\_status\_name varchar(256) NOT NULL,

PRIMARY KEY (`order\_status\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Pay\_status:

CREATE TABLE order\_status (

order\_status\_id int(11) NOT NULL AUTO\_INCREMENT,

order\_status\_name varchar(256) NOT NULL,

PRIMARY KEY (`order\_status\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Paying\_type:

CREATE TABLE paying\_type (

paying\_id int(11) NOT NULL AUTO\_INCREMENT,

paying\_name varchar(256) NOT NULL,

PRIMARY KEY (`paying\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Specification:

CREATE TABLE specification (

specification\_id int(11) NOT NULL AUTO\_INCREMENT,

specification\_name varchar(256) NOT NULL,

specification\_price int(11) DEFAULT NULL,

specification\_amount int(11) NOT NULL,

item\_id int(11) NOT NULL,

PRIMARY KEY (`specification\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=17 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Stock:

CREATE TABLE stock (

stock\_id int(11) NOT NULL AUTO\_INCREMENT,

item\_id int(11) NOT NULL,

import\_time datetime NOT NULL DEFAULT current\_timestamp(),

stock\_amount int(11) NOT NULL,

manufacturer\_id int(11) NOT NULL,

stock\_address varchar(256) NOT NULL,

PRIMARY KEY (`stock\_id`),

KEY item\_id\_idx (`item\_id`),

KEY manufacturer\_id\_idx (`manufacturer\_id`),

CONSTRAINT item\_id FOREIGN KEY (`item\_id`) REFERENCES item (`item\_id`) ON DELETE NO ACTION ON UPDATE CASCADE,

CONSTRAINT manufacturer\_id FOREIGN KEY (`manufacturer\_id`) REFERENCES manufacturer (`manufacturer\_id`) ON DELETE NO ACTION ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=19 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

Type:

CREATE TABLE type (

type\_id int(11) NOT NULL AUTO\_INCREMENT,

type\_name varchar(256) NOT NULL,

PRIMARY KEY (`type\_id`),

UNIQUE KEY type\_name\_UNIQUE (`type\_name`)

) ENGINE=InnoDB AUTO\_INCREMENT=13 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

User:

CREATE TABLE user (

id int(11) NOT NULL AUTO\_INCREMENT,

name varchar(256) NOT NULL,

mail varchar(256) NOT NULL,

phone varchar(256) NOT NULL,

bank\_id int(11) DEFAULT NULL,

bank\_account varchar(256) DEFAULT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY mail\_UNIQUE (`mail`),

KEY bank\_id\_idx (`bank\_id`),

CONSTRAINT bank\_id\_fkey FOREIGN KEY (`bank\_id`) REFERENCES bank (`bank\_id`) ON DELETE SET NULL ON UPDATE CASCADE

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

User\_order:

CREATE TABLE user\_order (

id int(11) NOT NULL,

order\_id int(11) NOT NULL,

shipment\_trace\_code varchar(256) DEFAULT NULL,

KEY id\_idx (`id`),

KEY order\_id\_fkey\_idx (`order\_id`),

CONSTRAINT id\_fkey FOREIGN KEY (`id`) REFERENCES user (`id`) ON DELETE CASCADE ON UPDATE CASCADE,

CONSTRAINT order\_id\_fkey FOREIGN KEY (`order\_id`) REFERENCES order (`order\_id`) ON DELETE CASCADE ON UPDATE CASCADE

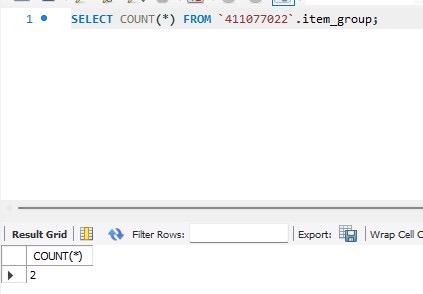
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_general\_ci

1. 對每個表進行COUNT(\*)

一張含有 文字, 螢幕擷取畫面, 軟體, 陳列 的圖片

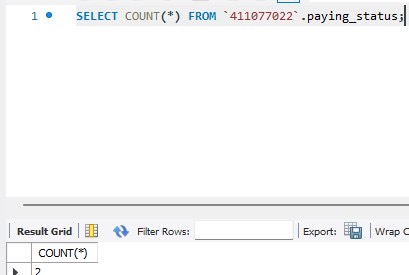
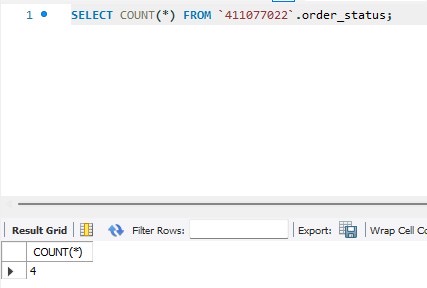
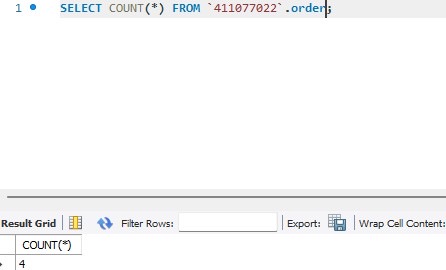
自動產生的描述一張含有 文字, 螢幕擷取畫面, 軟體, 陳列 的圖片

自動產生的描述一張含有 文字, 螢幕擷取畫面, 陳列, 軟體 的圖片

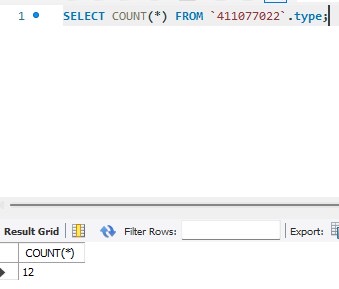
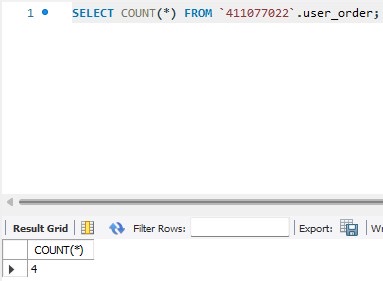
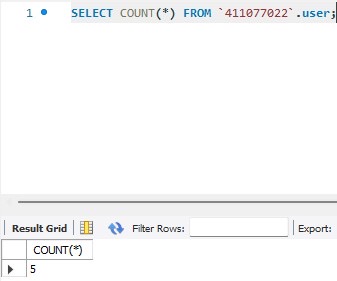
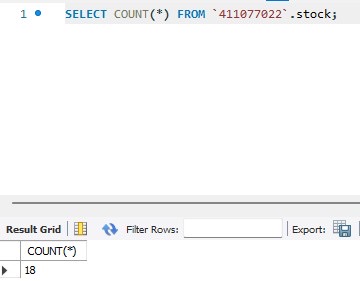
自動產生的描述一張含有 文字, 螢幕擷取畫面, 軟體, 行 的圖片

自動產生的描述一張含有 文字, 螢幕擷取畫面, 軟體, 陳列 的圖片

自動產生的描述一張含有 文字, 螢幕擷取畫面, 軟體, 陳列 的圖片

自動產生的描述一張含有 文字, 螢幕擷取畫面, 行, 字型 的圖片

自動產生的描述一張含有 文字, 螢幕擷取畫面, 軟體, 行 的圖片

自動產生的描述

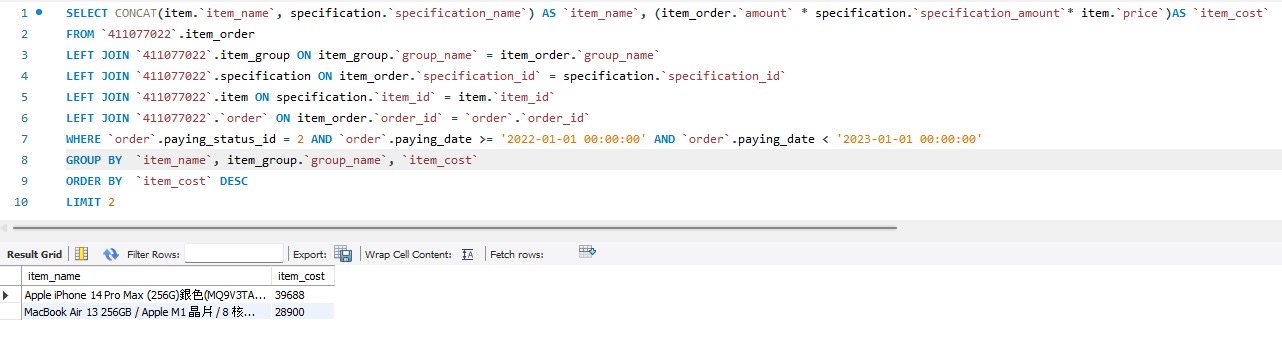
1. 查詢

查找過去一年中以價格計算購買金額最高的客戶。

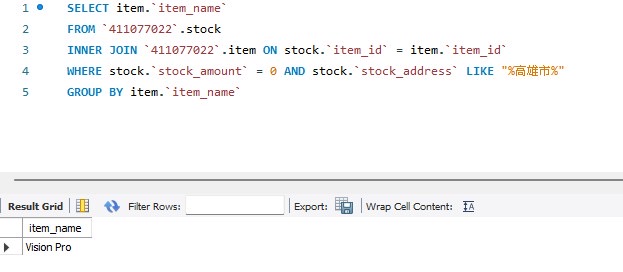
一張含有 文字, 螢幕擷取畫面, 字型, 行 的圖片

自動產生的描述

查找過去一年中按銷售金額計算的前2個產品。



查找高雄市每家店鋪都缺貨的產品。



假設由USPS運送的追蹤號碼為123456的包裹據報導在事故中被摧毀。查找該顧客的聯繫信息。還要查找該貨物的內容一張含有 文字, 螢幕擷取畫面, 字型, 行 的圖片

自動產生的描述

查找未按照承諾時間交付的套餐。

一張含有 文字, 螢幕擷取畫面, 行, 字型 的圖片

自動產生的描述