DBHW01 410887043 電機三 何祐豪

1.

DATA base System HW/Project 4/0887043 電報 = 何花夏 Bus information system Condition description. Bus Guild (公車公會) wants to make a database system to record and manage the information of Bus. P Every bus has its howber, if you have number of bus, you will know one information of the bus, eg. voute. Busy time You can also search 'Travel time', Busy time, Frequency, Start time, and last time about the bus. (2) A (bus) company owns many bus, and a company has 'Chamber', 'Chane', Manager', and 'Clocation', and key is Chumber. 3 A driver may drive one type of bus, one person is specialized in one types of bus. Besides, experience record the time (years) that one drivers drive a type of bus. DEvery driver has his unique SSN', and their 'Address' Fhane Lhame, sex, Salary can be researched. (5) A company will supervise many drivers. @ Bus may pass by many Bus stops (h), and a bus Stop is passed by many types of bus (m) DA bus stop has unique (Stop number), and has attributes like Bus name, Location, Busy time!

A bus stop has some relations about others stops We use 'Disstance' to record it. Distance can be meatured by 'kilo', Stop internal', and Sprading time. @ Bus step _ Other_ Bus_ Stop is primary key, and it also is primary key, and A+B is focused on A, All information about bus stop is about A, and Kilo, Stop - interval, and Spending-time is used to describe the information about A and B. Ex: Bus_Stop (Stop_Number_Other_Stop_Number, Bus_Name, Location, Busy - Time, Kilo, Stop - Internal, Spending - Tiling about A About A Aand B Aand B A and B Route:

101

102 (101), 102, 103, 104, 105)

102 (101), 102, 103, 104, 105)

103 (101), 103, 104, 105, 101)

104 (101), 105, 103, 104, 105, 111)

105 (101), 105 (101), 105, 103, 107, 106)

107 (101), 107 (105)

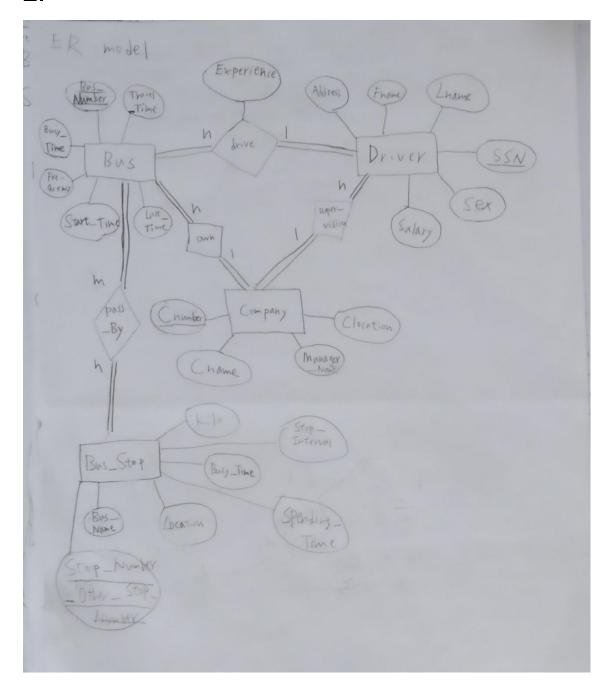
108 (101), 108, 109, 109, 109, 109)

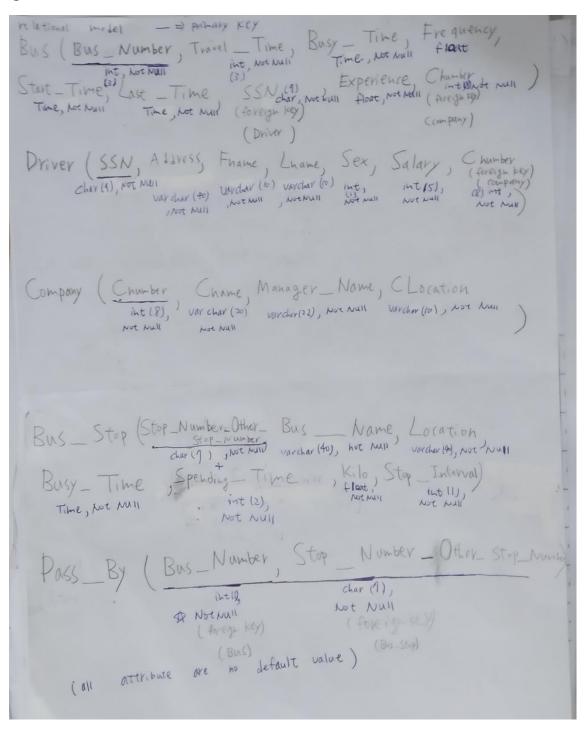
109 (101), 108, 109, 109, 109)

109 (101), 108, 109, 109, 109)

100 (101), 108, 109, 109, 109)

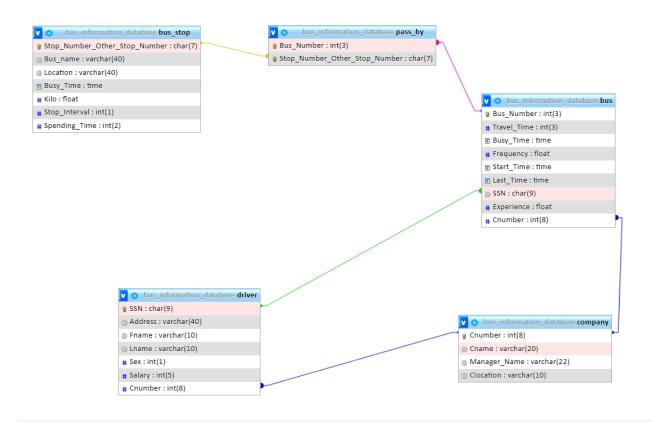
101 (101), 108, 109, 109, 109)





4.

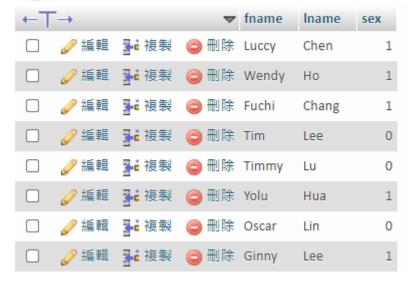
關聯圖



Query1: Find Fname, Lname, and Sex of the driver(s) that salary > 30000 NT dollars regardless of what company is belonged to.



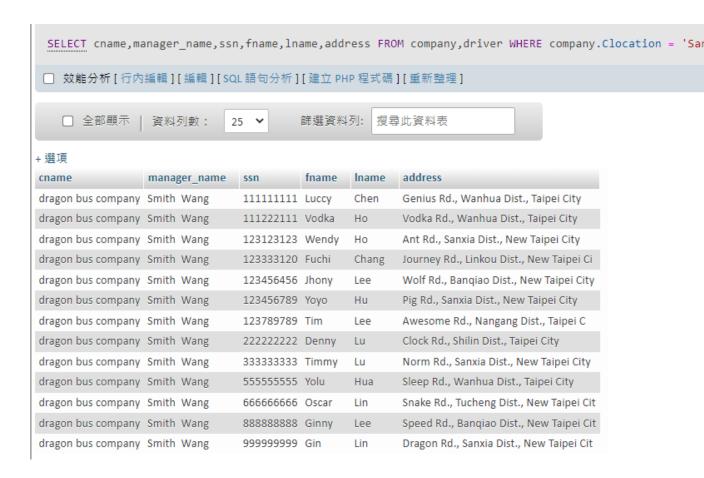
+ 選項



Query2:Find what company is located in Sanxia, and list company name, manager name.

Besides, Find the driver(s) who works for that company(s), list driver's SSN, driver's Fname, driver's Lname, and driver's address.

```
SELECT cname,manager_name,ssn,fname,lname,address
FROM company,driver
WHERE company.Clocation = 'Sanxia';
```



Query3:One person wants to use bus information database system to find how to go to 'Fish Pool'.

He(She) wants to know the stop number of 'Fish Pool', what stop is next to 'Fish Pool', what kinds of bus(es) can arrive in, and the frequency of that bus(es).

```
1 SELECT stop_number_other_stop_number,bus_number,frequency
2 FROM bus,bus_stop
3 WHERE location = "Fish Pool";
```

SELECT stop_number_other_stop_number,bus_number,frequency FROM bus,bus_stop WHERE 1

□ 效能分析 [行內編輯] [編輯] [SQL 語句分析] [建立 PHP 程式碼] [重新整理]

1 🕶 ->>	│ │ 全部顯示 │ 词	資料列數: 25 🕶	篩選資料列:	搜尋此資料表
---------	--------------	------------	--------	--------

+ 選項

stop_number_other_stop_number	bus_number	frequency
103 101	38	8.5
103 101	99	6
103 101	122	20
103 101	123	15
103 101	234	18
103 101	313	30
103 101	345	10
103 101	506	10
103 101	555	5
103 101	576	13
103 101	916	15
103 101	932	10
103 101	933	25
103 102	38	8.5
103 102	99	6
103 102	122	20
103 102	123	15
103 102	234	18
103 102	313	30
103 102	345	10
103 102	506	10
103 102	555	5
103 102	576	13
103 102	916	15
103 102	932	10