

# 資料庫系統概論 HW1

## 1. (3%) What is the difference between type "char" and type "varchar"?

In char, if the length of string is less than set or fixed length then it is padded with extra memory space, because the length of char is fixed length. In varchar, if the length of string is less than set or fixed length then it will store as it is without padded with extra memory spaces.

## 2. (3%) How many bytes it should take for "tinyint", "smallint", "mediumint", "int"?

- tinyint : 1 bytes
- smallint : 2 bytes
- mediumint : 3 bytes
- int : 4 bytes

## 3. (4%) What do you think about this DB schema? If you can change this table architecture, how would you modify it and why?

I think this schema is quite good now.

Im not familiar with MySQL now, I don't know what will be a better schema for the following requirement...