

## Homework 2

Due Date: 23:59, April 10, Monday, 2017

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In this homework ,you are asked to answer some questions with SQL.

Please upload your file to e-Campus system by the due date and name your file as “Group6\_xxxxxxx”, where xxxxxxx is your student ID.

The report should contain the **result (may be part of table)** and **SQL** for each question.

**Dataset:** nuic2017\_reg ( [sql](#) , [csv](#) ) <https://goo.gl/FD6ftC>

**Description:**

This is a real world registration data for a ball game called [NUIC](#).

There are three tables given,which are listed with description for each column below:

users: To register ,a teamleader(or manager) should sign up first

uid	sequentially assigned id
username	hashed username
email	partially hashed email
school	school
department	department
timestamp	sign up time

teams: Every user can register multiple teams

tid	sequentially assigned id
uid	which user create this team
category	what kind of ball game they registered [ b_bas , g_bas , b_vol , g_vol , tab , bad , sof ] basketball (b:boy , g:girl) volleyball (b:boy , g:girl) table tennis badminton softball
teamname	team name
success	successfully registered? (1:success,0:failed)
timestamp	register time

players: Every team contains some players

pid	sequentially assigned id
tid	which team the player belongs to
realname	For the sake of privacy ,only provide first word
birthday	birthday
id_num	hashed id number (But you can still use it as id number)
foreigner	{ 0: local 1:not local } player

Note that one player(same id\_num) can attend different kind of ball game

Bob may be a table tennis player and badminton player simultaneously ,in this case,

teams: (1,?,**tab**,A,1,time) , (2,?,**bad**,B,time)

players: (55,1,Bob,birthday,id\_num,0) , (75,2,Bob,birthday,id\_num,0)

### Questions:

1. How many users sign up for the game?  
總共有多少人註冊
2. Find the percentage of foreign players  
外國選手占多少比例呢
3. Find all user whose school names contains “交通”.  
註冊的人裡面那些人學校名稱裡面有"交通"這兩個字
4. Registration time for first and last team in category “bad”  
羽球第一隊和最後一隊的報名時間
5. For each day(2016/11/26~2016/12/09),how many teams send their register information respectively?  
2016/11/26~2016/12/09 每天分別有多少隊伍報名?
6. For each category,how many players are successfully registered?  
每個項目分別有多少成功報名的選手?
7. Find top 10 date that most players birthday is on,and how many players birthday is on that date respectively.(all players)  
選手中壽星最多的前 10 個日期 , 分別有多少壽星

8. Player(pid=3141)'s information are strange, I want to contact the user who register for him, please find the user's email.

這個選手(pid=3141)的資料怪怪的，幫我找看看幫他報名的人的 email

9. Find all players who has attend two kind of ball games(successfully registered)

哪些選手成功報名兩個項目

10. Following the previous question, and which two ball game do they attend.

呈上題，這些人分別是參加哪兩個項目呢

Bonus. Think one meaningful or useful or interesting or funny query and explain why you choose it.

想一個你覺得有用，或是有意義，或是有趣，或是好笑的 query，然後解釋為什麼你選它

If you have any question, please contact me as soon as possible:)

**Ref:**

- NCTU CSCC Database Service  
<https://www.cs.nctu.edu.tw/csc/mysql/>