Homework 7

- You are the executor in the health center at university
- The physical examination will be hold for freshmen students, and you are responsible for managing a great quantity of the health data
  - 1. Establish a database using CREATE DATABASE command (10 points)
  - 2. Create a table to record the personal health data of students using CREATE TABLE command
    - The table should contain the following fields: (10 points)

column	type	example
student ID	string	109001
gender	enum	male; female
birthdate	date	1991-01-01
height	float	1.73 (unit: meter)
weight	float	70 (unit: kilogram)
vision of left eye	float	0.9
vision of right eye	float	1.0
waistline	float	85.3 (unit: centimeter)
scoliosis	boolean	TRUE

Homework 7

- 3. Insert 10 random student health data using INSERT command (10 points)
- 4. Make queries according to current saved data in the database
  - Use Select … From … Where … command to answer the following question:
  - Some other commands such as COUNT, BETWEEN, UNION and etc. may be accompanied to fulfill certain conditions.
  - (1) Create a new column to store the age values of students. Calculate the average age of freshmen students (15 points)
    - *tip: divide the sum of the students age with the number of the student
  - (2) Return a list of students with poor eye sight (15 points)
    - *tip: the visions of both eyes under 0.8 is considered as poor sight.
  - (3) Calculate the Body Mass Index (BMI) for each student and create a new column to store the values. Return a list of students with unideal BMI values. (20 points)
    - *tip: BMI can be calculated with the following equation
    - $BMI = weight\ /\ height^2$, where BMI value in the range of 18.5~24 is considered as ideal.
  - (4) Return a list of students with unideal waistline (20 points)
    - *tip: an ideal waist should be less than 90 for male, 80 for female.
- Delay = Copy = 0

Homework 7

- For instruction 1-3, you should provide a **sql. file** which should be containing all the processed data
  - We will import the database and examine how you have handled the data. If we cannot successfully view your database data, you will be deducted 30 points.
- For instruction 4, you need to provide a screenshot of your current handled data and a word file containing all query outputs.
  - In the screenshot, you need to show some proofs which can identify your name.
  - We will check if the SQL statements match the query outputs from your database
  - If unmatched, you will get no point for that task! Be aware of the consistency
  - All results should be put in a word file.
- Finally, zip the sql. File, screenshot and word file in a compressed file and upload it to iLearning.
  - Otherwise, deducts 30 points.
- Delay = Copy = 0

- Deadline: 12/9 23:30
- TA徐子均
  - g109056029@mail.nchu.edu.tw
  - Upload to iLearning
    - Zip the whole web site!
    - Otherwise your grade will be deducted by 10
- Title
  - 動態網頁程式設計第X次作業_學號_學生名.zip
  - DWP_nthHomework_student number_student name.zip
  - Otherwise your grade will be deducted by 10
- In the source code, you need to add the identifications below
  - Otherwise your grade will be deducted by 20

```
/***********************

4001234567 王小明 第X次作業 12/9

4001234567 Ming Wang The xth Homework 12/9

***********************/
```