# Name of Your Company

Fetch my Data

# Project Title

Students Clubs Management

# Team

* Yan Fung Yenny Hou (MySQL Expert)
* Hector Onato (MS SQL Server Expert)

# Weekly Meeting Hours

We will meet and work on the project every Wednesday from 2:30pm to 4:30pm.

# Project Description

There is a database which holds data about student clubs. Examples of clubs are sport clubs, religious clubs, programming club, computer networks club, database club, music club. Students based on their interest join those clubs. Each club can have several groups. Students join groups and not clubs. We store start date and end date of membership in each group that a student joins.

Members of the group can be the students currently registered at the school or they can be an alumnus. Each member is identified by the student ID and store their name in the database. One member can be part of many groups of a club or member of many groups in many clubs. If a member is alumnus, we need to store his/her work history information (name of company, position, start date, end date). A person may join a company in different time, i.e., a person may join a company, leave it, and join in again several years later.

Each club is identified by name and has a lead. And each group is identified by name and has a head. Each group organizes some events. Each event is organized by a group, and is identified by subject, date and time. We store the location (room number, floor, building), registration fee and organizers for each event.

Groups may work on some funded projects. We need to store the project code, name and how much money (fund or budget) a project receives. The fund is divided and paid to students, and we need to store the portion of money that each student receives due to working on that project.

# Assumptions about Cardinality and Participations

You can write all the assumptions about Cardinality and Participations (total/partial) here.

* A student can join zero or many groups, and a group can be joined by one or more students.
* A club has at least one group, and a group must belong to only one club.
* A group can organize zero or many events, and an event is organized by only one group.
* A group may work on zero or many funded projects, and a project must be handled by only one group.
* A student may work on zero or many funded projects, and a project can be handled by one or more students.

# EER Modeling Diagram

In the following drawing canvas, EER Modeling shapes have been provided. You can copy and replicate them (Ctrl+C to copy and Ctrl+V to paste. You can also select a shape, then press Ctrl button and drag and drop to copy a shape) and edit them to build your diagram.



Group

Event

Club

has

M

1

organizes

1

M

joins

Member

N

M

Alumnus

Student

works on

Project

M

1

N

# ER-Model Mapping to Database Relational Schema

The relational Schema is written here

# Normalization

All relations must be normalized up to BCNF. You must explain why you believe every relation in your database in normalized.

# Determining Data Types (Domain) and Constraints

You explain why you choose a certain data type for a field and why you apply certain constraints

# Creating Database and Tables - SQL DDL

You do not need to copy SQL commands here. Save your SQL commands in a script file and just mention the name of the file here. Make sure the script file is stored besides this document within the same folder.

# Inserting Values in Tables

You do not need to copy SQL commands here. Save your SQL commands in a script file and just mention the name of the file here. Make sure the script file is stored beside this document within the same folder.

# SQL Queries

You do not need to copy SQL commands here. Save your SQL commands in a script file and just mention the name of the file here. Make sure the script file is stored beside this document within the same folder.

# Views

You do not need to copy SQL commands here. Save your SQL commands in a script file and just mention the name of the file here. Make sure the script file is stored beside this document within the same folder.