

TeamOptimism_SP_Schema_03

Team Optimism - Senior Project

March 4, 2019

1 Schema

Create table Student (
 student_ID int(10) not null,
 First_name varchar(20) not null,
 Last_name varchar(20) not null,
 Email varchar(20) not null,
 score_visitors double(2,1) not null,
 score_personal double(2,1) not null,
 score_study double(2,1) not null,
 score_hygiene double(2,1) not null,
 score_activities double(2,1) not null,
 dorm_hall varchar(10),
 room_number int(2))

Create table Hygiene (
 hygiene_ID int(8) not null,
 student_ID int(8) not null,
 question_1_hygiene int(2) not null,
 question_2_hygiene int(2) not null,
 question_3_hygiene int(2) not null,
 question_4_hygiene int(2) not null,
 question_5_hygiene int(2) not null)

Create table StudyHabits (
 study_habits_ID int(8) not null,
 student_ID int(8) not null,
 question_1_study_habits int(2) not null,
 question_2_study_habits int(2) not null,
 question_3_study_habits int(2) not null,
 question_4_study_habits int(2) not null,
 question_5_study_habits int(2) not null)

Create table Personal (
 personal_ID int(8) not null,

student_ID int(8) not null,
question_1_personal int(2) not null,
question_2_personal int(2) not null,
question_3_personal int(2) not null,
question_4_personal int(2) not null,
question_5_personal int(2) not null)

Create table Visitors (
visitors_ID int(8) not null,
student_ID int(8) not null,
question_1_visitor int(2) not null,
question_2_visitor int(2) not null,
question_3_visitor int(2) not null,
question_4_visitor int(2) not null,
question_5_visitor int(2) not null)

Create table Activities (
activities_ID int(8) not null,
student_ID int(8) not null,
question_1_activities int(2) not null,
question_2_activities int(2) not null,
question_3_activities int(2) not null,
question_4_activities int(2) not null,
question_5_activities int(2) not null)

Student(student_ID, First_name, Last_name, Email, score_hygiene, score_visitors,
score_study, score_personal, score_activities, dorm_hall, room_number)

Hygiene(hygiene_ID, student_ID, Hygiene_question_1, Hygiene_question_2, Hy-
giene_question_3, Hygiene_question_4, Hygiene_question_5)

StudyHabit(study_habits_ID, student_ID, StudyHabit_question_1, StudyHabit_question_2,
StudyHabit_question_3, StudyHabit_question_4, StudyHabit_question_5,)

Personal(personal_ID, student_ID, Personal_question_1, Personal_question_2, Per-
sonal_question_3, Personal_question_4, Personal_question_5)

Visitors(visitor_ID, student_ID, Visitors_question_1, Visitors_question_2, Visitors_question_3,
Visitors_question_4, Visitors_question_5)

Activities(activities_ID, student_ID, Activities_question_1, Activities_question_2,
Activities_question_3, Activities_question_4, Activities_question_5)

Requirements:

- Student has one first name, last name, email, and student ID. Each student

is given an ID number to identify the student after their questionnaire is submitted. Each student can only submit one questionnaire.

- Hygiene is identified by the score for the hygiene questions of each student, and the student ID of each student. The hygiene portion of the questionnaire has five questions with equal weight when determining the hygiene score.
- Study Habits is identified by the score for the study habit questions of each student, and the student ID of each student. The study habit portion of the questionnaire has five questions with equal weight when determining the study habit score.
- Personal is identified by the score for the personal questions of each student, and the student ID of each student. The personal portion of the questionnaire has five questions with equal weight when determining the personal score.
- Visitors is identified by the score for the visitor questions of each student, and the student ID of each student. The visitors portion of the questionnaire has five questions with equal weight when determining the visitors score.
- Activities is identified by the score for the activity questions of each student, and the student ID of each student. The activities portion of the questionnaire has five questions with equal weight when determining the activities score.
- Each question per category must be a int value, as the average score per category will not always be an integer value.
- Each student will be associate with a dorm hall that they have chosen, and a room number that will be chosen by them, as well

Constraints: In regards to constraints, each student must have a valid student ID number, along with a valid email. Each question in each portion of the questionnaire must be a valid number response (no zeroes or negative values). Each student ID can only appear once in the database. Also, all students must be assigned to a room, and no student that is part of the room selection process should be left without a room assigne to them.