Student

student_id : int
first_name : String
last_name : String
email : String
status : String

List<Student> getStudent();
void insertStudent(Student student);
void deleteAll();
void updateStudent(Student student);
void deleteStudent(Student student);
List<Student> getByName(String first_name, String last_name);
Student getByID(int studentID);

StudentClassOffering

student_id : int
courseoffering_id: int

void insertStudentAndClassOffering(StudentClassOffering studentClassOffering);
void deleteStudentAndClassOffering(StudentClassOffering studentClassOffering);
List<Student> getStudentByClassOfferingID(int courseOfferingID);
List<CourseOffering> getClassOfferingByStudentID(int id);

CourseOffering

int cid(CouserOffering_id) autogenerated
int course_id;
String classroom;
int studentNum;

List<CourseOffering> getCourseOffering();
List<CourseOffering> getCourseOfferingByCourseID(int courseID);
void insertClassOffering(CourseOffering classOffering);
void updateClassOffering(CourseOffering classOffering);
 void deleteClassOffering(CourseOffering classOffering);
List<CourseOffering> getCourseOfferingByCourseName(String class_name);

Attendance

int student_id;
int courseOffering_id;
Date date;
boolean attend;

void insertAttendance(Attendance attendance);
void deleteAttendance(Attendance attendance);
void updateAttendance(Attendance attendance);
Boolean getAllAttendanceByStudentIDDateCourseOffering(Date date, int student_id, int courseOffering_id);
List<Integer> getAttendPerformanceByTime(Date start, Date end, int courseOffering_id);

CalendarCourseOffering

Date date
int courseOffering_id

void insertCalendar(CalendarCourseOffering calendar);
void deleteCalendar(CalendarCourseOffering calendar);
List<Date> getCalendarByCourseOfferingID(int courseOfferingID);
List<CourseOffering> getCourseOfferingByDate(Date date);

Course

int course_id
String class_name
boolean status
int number_offerings

List<CourseOffering> getCourseOfferingByCourseID(int courseID);
List<CourseOffering> getCourseOffering();
void insertClassOffering(CourseOffering classOffering);
void updateClassOffering(CourseOffering classOffering);
void deleteClassOffering(CourseOffering classOffering);

*red means primary key

Many-to-manty relation: Student-CourseOffering
One-to-many relation:
        Couser-CourseOffering
    CourseOffering-CalendarCourseOffering
        Student-Attendance
    CalendarCourseOffering-Attendance