

Leopold Ringmayr  
 Brian Li  
 Eddie Kochman

## COMP 373 Databases Final Project: CollegeReserves

### Work Effort

*\*Highlight is the work since the last milestone*

**Brian Li:** Helped create initial ER diagram, Cleaned all datasets, Generated data, Edited ER diagram, Created database tables sql, wrote the insert method for loading data into tables, mainly, **mainly worked on and created the JDBC methods and helped debug javascript and html code, helped create the video of how to interact with the website**

**Leo Ringmayr:** Helped create initial ER diagram, Cleaned all datasets, Generated data, Edited ER diagram, wrote the sql queries, **helped create the JDBC methods, wrote the code (javascript and html) and edited the JDBC methods so that it works on Apache HTTP Server, Helped create the video of how to interact with the website**

**Eddie Kochman:** Helped create initial ER diagram, Parsed some raw data using online web scraper, **helped present for the project, helped the JDBC method for booking courses**

### About

Most data could not be easily obtained/generated due to FERPA reasons so much was randomly generated. Thus, our data is for a fictitious small university called the University of Jason. The main idea was that this database created was for colleges to use to book classrooms and events. This would help ease the booking system since booking requires a lot of forms to be handled and the process would be lengthy.

### Assumptions

1. Club presidents and any faculty members can book events
2. Only the department head can book a course
3. An event can only have one supplier/order
4. A faculty member belongs to one department
5. Events only exist in buildings
6. Student's ID and Faculty's ID are integers (ascending integers starting at 1). Example: stu\_id = 34 and fac\_id = 34 --even though the number is the same, these are different columns
7. Only Available Majors: Biology, Chemistry, Computer Science, DWA, Economics, Math, Music, Physics, Politics
8. Clock Time is 0:00 - 23:59

9. Only for the 2019 Year
10. if there is an event in a room/time slot already, course can't be placed there and vice versa
11. Assume users of the site are students and/or faculty
12. Once courses have been booked, they can't be removed

## Schemas

**Bold: Primary Key**

*Italicize: Foreign Key*

- 1) Student (**stu\_id**, stu\_name, email, major)
- 2) Department (**dept\_name**, d\_budget)
- 3) Faculty (**fac\_id**, fac\_name, dept\_name, head)
- 4) Club (**club\_name**, club\_category, c\_budget, presID, *advisor\_id*, *dept\_name*)  
\*advisor\_id references to faculty(fac\_id)
- 5) Membership (*stu\_id*, *club\_name*)
- 6) Building (**time\_stamp**, **building\_name**, **room\_no**, max\_cap, *stu\_id*, *fac\_id*)
- 7) Course (**crn**, c\_name, c\_start\_time, c\_end\_time, Mon, Tue, Wed, Thu, Fri, *time\_stamp*, *building\_name*, *room\_no*, *fac\_id*)
- 8) Event (**event\_name**, supplier, e\_start\_time, e\_end\_time, date, *club\_name*, **time\_stamp**, **building\_name**, **room\_no**, **presID**, **fac\_id**)  
\*presID references to Club(pres\_id)
- 9) c\_in (*crn*, *time\_stamp*, *building\_name*, *room\_no*)