Paul Nguon
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# One To Many Lab

• The DDL that you used to create your Section table.

```
CREATE TABLE sections (
    departmentName VARCHAR(50) NOT NULL,
    courseNumber INTEGER NOT NULL,
    sectionNumber INTEGER NOT NULL,
    section_year INTEGER NOT NULL,
    semester VARCHAR(50) NOT NULL,
    instructor VARCHAR(50) NOT NULL,
    days VARCHAR(10) NOT NULL,
    startTime INTEGER NOT NULL,
    building VARCHAR(10) NOT NULL,
    roomNo INTEGER NOT NULL,
    CONSTRAINT section_semester CHECK(semester in ('Fall','Spring','Winter','Summer')),
    CONSTRAINT section_days CHECK(days in ('MW','TuThu','MWF','F','S')),
    CONSTRAINT section_pk PRIMARY KEY(departmentName, sectionNumber),
    CONSTRAINT courseNumber_fk FOREIGN KEY(departmentName, courseNumber)
                                REFERENCES course (departmentName, courseNumber),
    CONSTRAINT section_uk_01 UNIQUE (departmentName, courseNumber, sectionNumber) --candidate
);
```

• A report out of the rows that you have in the Section table

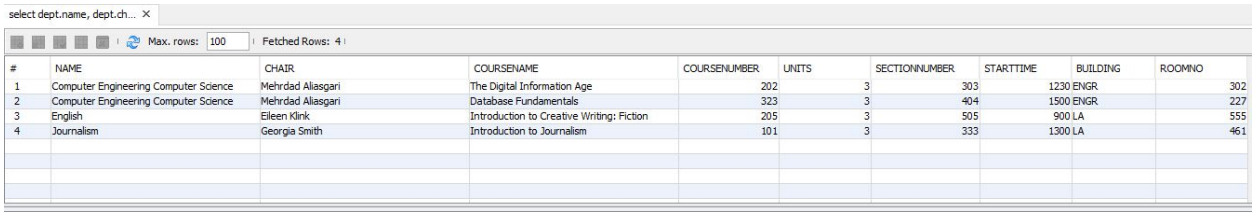
| DEPARTMENTNAME | COURSENUMBER | SECTIONNUMBER | SECTIONYEAR | SEMESTER | INSTRUCTOR | DAYS | STARTTIME | BUILDING | ROOMNO |
|---|---|---|---|---|---|---|---|---|---|
| Computer Engineering Computer Science | 202 | 303 | 2021 | Fall | David Brown | MW | 1230 | ENGR | 302 |
| Computer Engineering Computer Science | 323 | 404 | 2021 | Sprin g | Mimi Opkins | TuThu | 1500 | ENGR | 227 |
| English | 205 | 505 | 2021 | Fall | Bob Junior | MW | 900 | LA | 555 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Journalism | 101 | 333 | 2021 | Fall | Will Smith | F | 1300 | LA | 461 |

• The console text that you received when you tried to insert a Section for a non-existent course.

```
[80:1] Failed in 0 s.
[Exception, Error code 30,000, SQLState 23503] INSERT on table 'SECTIONS' caused a violation of foreign key constraint 'FK_SECTIONS' for key (College of Engineering,1001).  The statement has been rolled back.
  Line 80, column 1
```

• The report that you got by doing your new and improved select statement that joins Department, Course, and Section

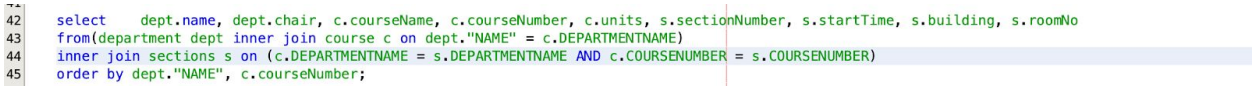


select dept.name, dept.ch... ×

Max. rows: 100 Fetched Rows: 4

| # | NAME | CHAIR | COURSENAME | COURSENUMBER | UNITS | SECTIONNUMBER | STARTTIME | BUILDING | ROOMNO |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Computer Engineering Computer Science | Mehrdad Aliasgari | The Digital Information Age | 202 | 3 | 303 | 1230 | ENGR | 302 |
| 2 | Computer Engineering Computer Science | Mehrdad Aliasgari | Database Fundamentals | 323 | 3 | 404 | 1500 | ENGR | 227 |
| 3 | English | Eileen Klink | Introduction to Creative Writing: Fiction | 205 | 3 | 505 | 900 | LA | 555 |
| 4 | Journalism | Georgia Smith | Introduction to Journalism | 101 | 3 | 333 | 1300 | LA | 461 |

• The text of your new and improved select statement.



```
42    select    dept.name, dept.chair, c.courseName, c.courseNumber, c.units, s.sectionNumber, s.startTime, s.building, s.roomNo
43    from(department dept inner join course c on dept."NAME" = c.DEPARTMENTNAME)
44    inner join sections s on (c.DEPARTMENTNAME = s.DEPARTMENTNAME AND c.COURSENUMBER = s.COURSENUMBER)
45    order by dept."NAME", c.courseNumber;
```

```
select    dept.name, dept.chair, c.courseName, c.courseNumber, c.units,
s.sectionNumber, s.startTime, s.building, s.roomNo
from(department dept inner join course c on dept."NAME" = c.DEPARTMENTNAME) inner
join sections s on (c.DEPARTMENTNAME = s.DEPARTMENTNAME AND c.COURSENUMBER =
s.COURSENUMBER)
order by dept."NAME", c.courseNumber;
```

• Your team's collaboration document.

Assignment: One to Many
Partner #1: Paul Nguon
Partner #2: Larry Delgado
Partner #3: Brenda Solis
Contributions:

| Portion of the Project | Partner who performed that | comments |
|---|---|---|
| navigator | Larry<br>Paul<br>Brenda | Alternated reading out directions |

| | | |
|---|---|---|
| UML class diagram | n/a | n/a |
| DDL | Paul<br>Larry<br>Brenda | All performed own attempts of the table voting on who had the nice layout to screenshot |
| SQL DML CODING | Paul<br>Larry | All performed own attempts of the table voting on who had the nice layout to screenshot |
| Testing/validation | Paul<br>Larry<br>Brenda | Looked out for any syntactical errors prevalent in each others code when screen sharing was applied |

% overall credit for partner #1: 33% or 100%
% overall credit for partner #2: 33% or 100%
% overall credit for partner #3: 33% or 100%