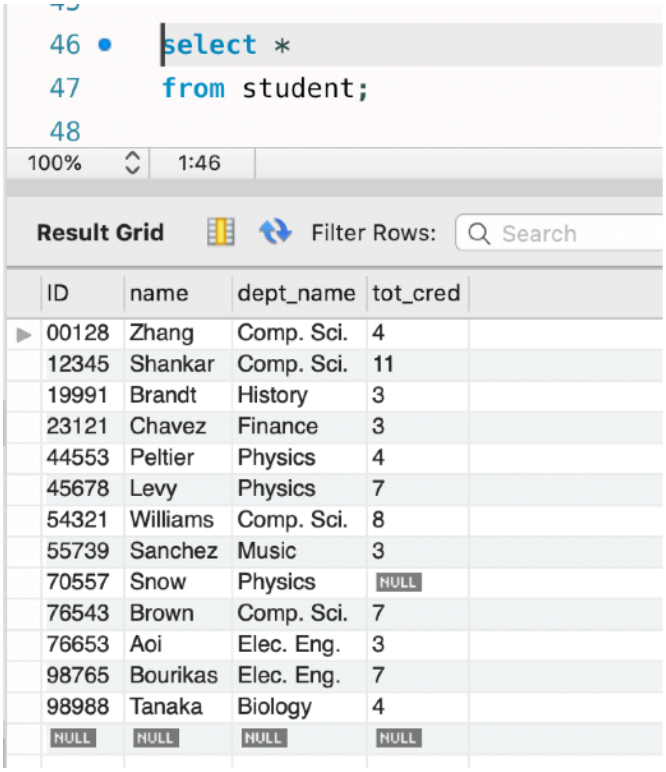
```
create database sum20welge_university;
use sum20welge_university;

1.
update instructor
set salary = salary * 1.1
where dept_name = 'Comp. Sci.';

2.
delete from course
where course_id not in (select course_id
                                                    from section);

3.
insert into instructor
          select ID, name, dept_name, 10000
   from student
   where tot_cred > 100;

4.
insert into course
values('CS-001', 'Computer Basis', 'Comp. Sci.', 2);


insert into section (course_id, sec_id, semester, year)
values('CS-001', 1, 'Winter', 2018);


insert into takes (ID, course_id, sec_id, semester, year)
                    select id, course_id, sec_id, semester, year
       from student, section
       where dept_name = 'Comp. Sci.' and course_id = 'CS-001';

5.
delete from takes
where id = (select id
                              from student
                              where name = 'Zhang')
          and course_id = (select course_id
                                          from section
                where course_id = 'CS-001');

6.
delete from takes
where course_id = (select course_id
                                          from course
                where lower(title) like '%database%');

7.
update student a
set tot_cred = (select sum(credits)
                                    from course natural join takes t
             where grade != 'F' and grade is not null and a.id = t.id);
```

```
select *
from student;
```



ID	name	dept_name	tot_cred
00128	Zhang	Comp. Sci.	4
12345	Shankar	Comp. Sci.	11
19991	Brandt	History	3
23121	Chavez	Finance	3
44553	Peltier	Physics	4
45678	Levy	Physics	7
54321	Williams	Comp. Sci.	8
55739	Sanchez	Music	3
70557	Snow	Physics	NULL
76543	Brown	Comp. Sci.	7
76653	Aoi	Elec. Eng.	3
98765	Bourikas	Elec. Eng.	7
98988	Tanaka	Biology	4
NULL	NULL	NULL	NULL

```
create database sum20welge_constraints;
use sum20welge_constraints;

CREATE TABLE STORE_REPS (Rep_ID INT(5),
Last VARCHAR(15),
First VARCHAR(10),
Comm CHAR(1) default 'Y');

alter table STORE_REPS modify Last varchar(15) not null,
                                                modify First varchar(10) not null;

create table BOOK_STORES
(Store_ID int(8) primary key,
Name varchar(30) unique not null,
Contact varchar(20),
Rep_ID int(5));

alter table BOOK_STORES
        add foreign key (Rep_ID)
   references STORE_REPS(Rep_ID)
   on delete cascade;

create table REP_CONTRACTS
```

```
(Store_ID int(8),
Name int(5),
Quarter char(3),
Rep_ID int(5),
foreign key(Store_ID)
        references BOOK_STORES(Store_ID),
foreign key(Rep_ID)
        references STORE_REPS(Rep_ID),
primary key(Rep_ID, Store_ID, Quarter));
```

****SIDE: these last two were giving me an error when trying to establish foreign keys?? Error code 1215? I thought I followed along close to what the slides specified but I'm not able to find what I'm missing exactly.