

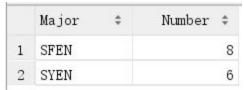
1. What is the name of the student with CWID='11461'

select Name from HW11_students where CWID = "11461";



2. What is the total number of students by Major?

select major, count(*) as Number from HW11_majors group by Major;



3. What is the most frequent grade across all students and courses?

select Grade, max(frequent) from (select Grade, count(*) as frequent from HW11_grades group by Grade);

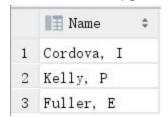


4. Show the student's name, CWID, and major along with the courses and grades each student received in that course for all grades.

select s.Name, s.CWID, s.Major, g.Course,g.Grade from HW11_students s join (select Student_CWID, Course, Grade from HW11_grades) g where s.CWID = g.Student_CWID;

	Name \$	CWID \$	Major ‡	Course \$	Grade \$
1	Baldwin, C	10103	SFEN	SSW 567	A
2	Baldwin, C	10103	SFEN	SSW 564	A-
3	Baldwin, C	10103	SFEN	SSW 687	В
4	Wyatt, X	10115	SFEN	SSW 567	A
5	Wyatt, X	10115	SFEN	SSW 564	B+
6	Wyatt, X	10115	SFEN	SSW 687	A
7	Forbes, I	10172	SFEN	SSW 555	A
8	Forbes, I	10172	SFEN	SSW 567	A-
9	Erickson, D	10175	SFEN	SSW 567	A
10	Erickson, D	10175	SFEN	SSW 564	A
11	Erickson, D	10175	SFEN	SSW 687	B-
12	Chapman, 0	10183	SFEN	SSW 689	A
13	Cordova, I	11399	SYEN	SSW 540	В
14	Wright, U	11461	SYEN	SYS 800	A
15	Wright, U	11461	SYEN	SYS 750	A-
16	Wright, U	11461	SYEN	SYS 611	A
17	Kelly, P	11658	SYEN	SSW 540	F
18	Morton, A	11714	SYEN	SYS 611	A
19	Morton, A	11714	SYEN	SYS 645	С
20	Fuller, E	11788	SYEN	SSW 540	A

5. Show the names of students who have grades for 'SSW 540'. select Name from (HW11_students s join (select Student_CWID, Course, Grade from HW11_grades where Course= "SSW 540") g on s.CWID = g.Student_CWID) where Grade is not null;



6. Recreate the Instructor summary table from HW09, including the Instructor's cwid, name, department, course taught, and the number of students who took the course

```
instructor_table = PrettyTable()
instructor_table.field_names = ["CWID", "Name", "Dept", "Course", "Students"]
for row in db.execute('select i.CWID,i.Name, i.Dept, g.Course,g.Number from (HW11_instructors i join (select count(*) as Number, Course, Instru
              instructor_table.add_row(list(row))
        print(f"Instructor Summary\n{instructor_table}")
PROBLEMS 15 OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                                                     2: Python Debug Consc 🔻 🛨 🎞
                 Name | Dept | Course | Students |
| CWID |
             Einstein, A
  98763
98764
              Newton, I
Feynman, R
                                SFEN
SFEN
                                          SSW 555
SSW 564
             Feynman, R
Feynman, R
Newton, I
Darwin, C
Darwin, C
                                SFEN
SFEN
SFEN
                                          SSW 567
SSW 687
SSW 689
  98765
  98763
                                SYEN
SYEN
SYEN
  98760
98760
                                          SYS 611
SYS 645
              Darwin, C
                                          SYS 750
  98760
```

```
('Wright, U',)
('SFEN', 8)
('SYEN', 6)
('A', 11)
('Cordova, I',)
('Kelly, P',)
('Fuller, E',)
Instructor Summary
  CWID
             Name
                     | Dept | Course | Students |
         Einstein, A
  98765
                       SFEN
                              SSW 540
  98763
          Newton, I
                       SFEN |
                              SSW 555
  98764
          Feynman, R
                       SFEN
                              SSW 564
  98765
         Einstein, A
                       SFEN
                              SSW 567
  98764
          Feynman, R
                       SFEN
                              SSW 687
  98763
          Newton, I
                       SFEN
                              SSW 689
          Darwin, C
  98760
                              SYS 611
                       SYFN
  98760
          Darwin, C
                              SYS 645
                       SYEN
          Darwin, C
  98760
                       SYEN
                              SYS 750
  98760
                       SYEN
                             SYS 800
          Darwin, C
```