

Ben Goodwin
MSDS7330
Mini Project 2

1) Produce a list of all the students in the student relation, including their ID, name and department name, sorted into ascending order by their name.

Input:

```
select student.ID,name,dept_name
from student
ORDER BY name;
```

Output:

ID	name	dept_name	
5144	Abdellatif	Geology	
78858	Abdul-Rahman	Psychology	
41596	Abeggl	Finance	
45002	Abraham	Psychology	
20244	Abu-B	Marketing	
83622	Achilles	Elec. Eng.	
13511	Adam	Cybernetics	
20084	Adda	Accounting	
52945	Adeni	Languages	
46655	Advani	Athletics	
58326	Afim	Accounting	
44584	Agar	Geology	
18709	Agar	Math	
2139	Agarwal	Physics	
49205	Agraz	Pol. Sci.	
77588	Aguilar	Psychology	
30188	Ahmad	Marketing	
45436	Ahmadian	Psychology	
29091	Ahso	Pol. Sci.	
5414	Aiken	Pol. Sci.	
94726	Ailamaki	Accounting	
16993	Akaiw	Accounting	
73072	Akroy	Comp. Sci.	
49813	Al-Hu	History	

2) Produce a list of the names and salaries of professors in the Comp. Sci. and Elec. Eng. departments ordered by decreasing salary

Input:

```
select instructor.name,salary
from instructor
where dept_name in ('Comp. Sci.','Elec. Eng.')
ORDER by salary desc;
```

Output:

	name	salary	
▶	Bondi	115469.11	
	Sullivan	90038.09	
	Levine	89805.83	
	Gustafsson	82534.37	
	Bourrier	80797.83	
	Vicentino	34272.67	

3) Find all courses whose identifier starts with the string "CS-1"

Input:

```
INSERT INTO course (course_id, title, dept_name, credits)
VALUES ('CS-1', 'Test Course', 'Comp. Sci.', '3');

select course_id, title
from course
where course_id like 'CS-1%';
```

Output:

	course_id	title	
▶	CS-1	Test Course	
	NULL	NULL	

4) Find the maximum and minimum enrollment across all sections, considering only sections that had some enrollment, don't worry about those that had no students taking that section

Input:

```
select sec_id, count(sec_id)
from takes
GROUP by sec_id;
```

Output:

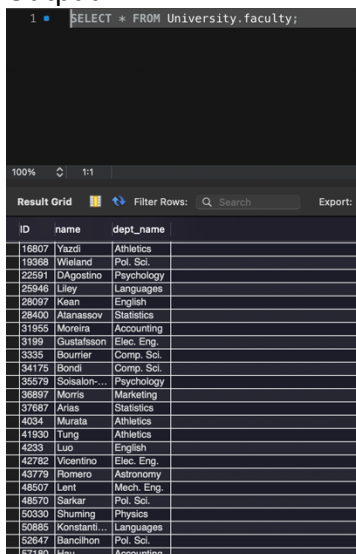
	sec_id	count(sec_id)	
▶	1	25512	
	2	4166	
	3	322	

5) Create a view faculty showing only the ID, name, and department of instructors.

Input:

```
create view faculty as
select ID, name, dept_name
from instructor;
```

Output:



The screenshot shows a database query result for the 'SELECT * FROM University.faculty;' query. The result is displayed in a table with columns 'ID', 'name', and 'dept_name'. The table contains 25 rows of data, listing various instructors and their departments.

ID	name	dept_name
16807	Yazdi	Athletics
19368	Wieland	Pol. Sci.
22591	D'Agostino	Psychology
25846	Liley	Languages
28097	Kean	English
28400	Atanasov	Statistics
31955	Moreira	Accounting
3199	Gustafsson	Elec. Eng.
3335	Bourrier	Comp. Sci.
34175	Bondi	Comp. Sci.
35579	Schabath	Psychology
36897	Morris	Marketing
37687	Arias	Statistics
4034	Murata	Athletics
41930	Tung	Athletics
4233	Luo	English
42782	Valentino	Elec. Eng.
43779	Romero	Astronomy
48507	Lent	Mech. Eng.
48570	Sarkar	Pol. Sci.
50330	Shuming	Physics
50885	Konstantin	Languages
52647	Bancilhon	Pol. Sci.
57180	Hau	Accounting

Q6) Create a view “CSinstructors”, showing all information about instructors from the Comp. Sci. department

Input:

```
select instructor.name,salary
from instructor
where dept_name in ('Comp. Sci.','Elec. Eng.')
ORDER by salary desc;
```

Output:

	name	salary	
►	Bondi	115469.11	
	Sullivan	90038.09	
	Levine	89805.83	
	Gustafsson	82534.37	
	Bourrier	80797.83	
	Vicentino	34272.67	