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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:

```
SELECT * FROM University.faculty;
```

100% 1:1

Result Grid Filter Rows: Search Export:

| ID | name | dept_name |
|---|---|---|
| 16807 | Yazdi | Athletics |
| 19368 | Wieland | Pol. Sci. |
| 22591 | DAgostino | Psychology |
| 25946 | Liley | Languages |
| 28097 | Kean | English |
| 28400 | Atanassov | Statistics |
| 31955 | Moreira | Accounting |
| 3199 | Gustafsson | Elec. Eng. |
| 3335 | Bourrier | Comp. Sci. |
| 34175 | Bondi | Comp. Sci. |
| 35579 | Soisalon-... | Psychology |
| 36897 | Morris | Marketing |
| 37687 | Arias | Statistics |
| 4034 | Murata | Athletics |
| 41930 | Tung | Athletics |
| 4233 | Luo | English |
| 42782 | Vicentino | Elec. Eng. |
| 43779 | Romero | Astronomy |
| 48507 | Lent | Mech. Eng. |
| 48570 | Sarkar | Pol. Sci. |
| 50330 | Shuming | Physics |
| 50885 | Konstanti... | 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 |
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