Using sub-queries for all of the next questions

1 Display the last names of all employees who are in the same department as the employee named Abel.

SELECT last\_name

FROM employees

WHERE department\_id =

(SELECT department\_id

FROM employees

WHERE last\_name = 'Abel')

LAST\_NAME

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Zlotkey

Abel

Taylor

2 Display the last name of the lowest paid employee(s)

SELECT last\_name

FROM employees

WHERE salary =

(SELECT MIN(salary)

FROM employees)

LAST\_NAME

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Matos

Vargas

Whalen

3 Display the city that the lowest paid employee(s) are located in.

Hint: needs join and subquery

SELECT DISTINCT city

FROM employees

JOIN departments USING(department\_id)

JOIN locations USING(location\_id)

WHERE salary =

(SELECT MIN(salary)

FROM employees)

CITY

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Seattle

South San Francisco

5 Display the last name of the lowest paid employee(s) in each department

SELECT last\_name

FROM employees

WHERE (department\_id, salary) IN

(SELECT department\_id, MIN(salary)

FROM employees

GROUP BY department\_id)

LAST\_NAME

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Kochhar

De Haan

Fay

Gietz

Matos

Vargas

Taylor

Lorentz

Whalen

6 Display the last name of the lowest paid employee(s) in each city

SELECT last\_name

FROM employees

JOIN departments USING(department\_id)

JOIN locations USING(location\_id)

WHERE (salary, city) IN

(SELECT MIN(salary), city

FROM employees

JOIN departments USING(department\_id)

JOIN locations USING(location\_id)

GROUP BY city)

LAST\_NAME

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Whalen

Matos

Vargas

Fay

Lorentz

Taylor

7 Display last name and salary for all employees who earn less than the lowest salary in **ANY department**.

Sort the output by top salaries first and then by last name.

SELECT last\_name, salary

FROM employees

WHERE salary < ANY

(SELECT MIN(salary)

FROM employees

GROUP BY department\_id)

ORDER BY salary DESC, last\_name

LAST\_NAME SALARY

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Hartstein 13000

Higgins 12000

Abel 11000

Zlotkey 10500

Hunold 9000

Taylor 8600

Gietz 8300

Grant 7000

Ernst 6000

Fay 6000

Mourgos 5800

Lorentz 4200

Rajs 3500

Davies 3100

Matos 2500

Vargas 2500

Whalen 2500

8 Display last name, job title and salary for all employees whose salary matches any of the salaries from the IT Department.

Do NOT use Join method.

Sort the output by salary ascending first and then by last\_name

SELECT last\_name, job\_id, salary

FROM employees

WHERE salary IN

(SELECT salary

FROM employees

WHERE job\_id = 'IT\_PROG')

ORDER BY salary, last\_name

LAST\_NAME JOB\_ID SALARY

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Lorentz IT\_PROG 4200

Ernst IT\_PROG 6000

Fay MK\_REP 6000

Hunold IT\_PROG 9000