L6-W7-DBS301-Subqueries-Set

# Step 1- rename this file to L6-youremailnae

# Step 2 - Starting with Q4, copy the SQL and result to this file and submit

**To be done before starting the questions from 4 to 10**

1 SET AUTOCOMMIT ON (do this each time you log on) so any updates, deletes and inserts are automatically committed before you exit from Oracle.

Tools🡪Preferences🡪Advanced Parameters

However, there is no checkbox of “AUTOCOMMIT”, so that I will do the next two steps every time I log in.

2 Make sure you exist as an employee with a NULL salary and 0.2 commission\_pct in department 90.

INSERT INTO employees VALUES

(999, 'Bo', 'Qu', 'bqu7@myseneca.ca', NULL, SYSDATE, 'IT\_PROG', NULL, 0.2, NULL, 90);

3 Change the salary of the employees with a last name of Matos and Whalen to be 2500.

UPDATE EMPLOYEES

SET SALARY = 2500

WHERE LAST\_NAME = 'Matos'

OR LAST\_NAME = 'Whalen';

**You must use subqueries for these questions (must minimize the number of tables being used in the main query)**

4 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')

AND LAST\_NAME <> 'Abel';

LAST\_NAME

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Zlotkey

Taylor

2 rows selected

5 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 rows selected

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

SELECT DISTINCT CITY

FROM LOCATIONS l, EMPLOYEES e, DEPARTMENTS d

WHERE SALARY = (SELECT MIN(SALARY) FROM EMPLOYEES)

AND d.LOCATION\_ID = l.LOCATION\_ID

AND d.DEPARTMENT\_ID = e.DEPARTMENT\_ID;

CITY

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Seattle

South San Francisco

2 rows selected

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

SELECT LAST\_NAME

FROM EMPLOYEES

WHERE SALARY IN (SELECT MIN(SALARY) FROM EMPLOYEES GROUP BY DEPARTMENT\_ID);

LAST\_NAME

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Kochhar

De Haan

Ernst

Lorentz

Matos

Vargas

Taylor

Grant

Whalen

Fay

Gietz

11 rows selected

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

SELECT LAST\_NAME

FROM EMPLOYEES

WHERE SALARY IN (SELECT MIN(SALARY) FROM EMPLOYEES WHERE DEPARTMENT\_ID IN (SELECT DEPARTMENT\_ID FROM DEPARTMENTS WHERE LOCATION\_ID IN (SELECT LOCATION\_ID FROM LOCATIONS)));

LAST\_NAME

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Matos

Vargas

Whalen

3 rows selected

9 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 WHERE DEPARTMENT\_ID = ANY(SELECT DEPARTMENT\_ID FROM DEPARTMENTS))

ORDER BY SALARY DESC, LAST\_NAME;

LAST\_NAME SALARY

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0 rows selected

10 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 = ANY(SELECT SALARY FROM EMPLOYEES WHERE DEPARTMENT\_ID = ANY(SELECT DEPARTMENT\_ID FROM DEPARTMENTS WHERE DEPARTMENT\_NAME = 'IT'))

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

4 rows selected