

## Review Test Submission: L6-subq

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Course	Database Design II and SQL Using Oracle
Test	L6-subq
Started	2/15/19 7:37 PM
Submitted	2/15/19 9:57 PM
Due Date	2/15/19 11:59 PM
Status	Needs Grading
Attempt Score	Grade not available.
Time Elapsed	2 hours, 19 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

## Question 1

Needs Grading


## Remember you need te SQL and the resulting output to get any marks.

Execute he following command

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

When done answer YES in the answer section

Selected Answer: YES

Correct Answer:  YES should appear as the answer to doing it

## Question 2


Needs Grading

Make sure you exist as an employee with a NULL salary and 0.2 commission\_pct in department 90. Fill in the other fields as well

That requires an INSERT

Selected Answer: INSERT INTO employees VALUES (1314, 'Senal', 'Goonetilaka', 'mgoonetilaka@myseneca.ca', NULL, SYSDATE, 'STD', NULL, 0.2, NULL, 90);

Correct Answer: INSERT INTO EMPLOYEES  
VALUES

 (777, 'Amal', 'Khandelwal', 'AKHANDELWAL', '123.123.1234',  
'31-DEC-99', 'IT\_PROG', NULL, .2, 102, 90);

## Question 3

Needs Grading

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

Selected Answer: UPDATE Employees

SET salary=2500

WHERE UPPER(last\_name)='MATOS' OR UPPER(last\_name)='WHALEN';

2 rows updated.

Commit complete.

Correct Answer: UPDATE EMPLOYEES

SET SALARY = 2500

 WHERE LAST\_NAME = 'Matos' OR LAST\_NAME = 'Whalen';

## Question 4

Needs Grading

YOU MUST USE SUBQUERIES for these questions.

(Must also minimize the number of tables when answering. Example don't use 10 tables when 3 will do)

Display the last names of all employees who are in the same department as the employee named who has a name called Abel.

Selected Answer: SELECT last\_name AS "Last Name"

FROM employees

WHERE department\_id =

(SELECT DISTINCT(department\_id)

FROM employees

WHERE UPPER(last\_name) = 'ABEL' OR UPPER(first\_name) = 'ABEL')

ORDER BY 1 ASC;

Last Name

-----

Abel

Amarillo

Bergsteige

Brigade

Chan

Chancevente

Cornel

Gibbons

Gregson

Grovin

Gruber

Harvey

Jacobs

Krain

LeBlanc

LeDuc

Litrاند

Loo Nam

Montoya

Mot

Mustaine

O'Brian

Pallomine

Rodriguez

Sanchez

Smertal

Strandherst

Termede

Testorok

Torson

Turcotte

Wandiko

Whiteduck

Young

Zlotkey

35 rows selected.

Correct Answer:

```

SELECT LAST_NAME
FROM EMPLOYEES
WHERE DEPARTMENT_ID =
      (SELECT DEPARTMENT_ID
       FROM EMPLOYEES
        WHERE UPPER(LAST_NAME) = upper('Abel'));
Should not word wrap ... but ok this time

```

```

LAST_NAME
-----
Zlotkey
Abel
Taylor
Flertjan
Grovin
Smertal
Mustaine
Harvey
LeDuc
Bergsteige
Gruber
Sanchez
Chancevente
Torson
Cornel
Gibbons
Pallomine
Jacobs
Strandherst
Brigade
Litrand
Armarillo
Mot
Turcotte
LeBlanc
Rodriguez
Young
Loo Nam
Chan
Wandiko
Gregson
Krain
Termede
Testorok
Whiteduck
✔ Montoya

```

## Question 5

Needs Grading

Display the last name then first name of the lowest paid employee(s)

Selected Answer: SELECT last\_name AS "Last Name", first\_name AS "First Name"

```

FROM employees
WHERE salary = (
                SELECT MIN(salary)
                FROM employees
            );

```

Last Name	First Name
Matos	Randall
Vargas	Peter
Whalen	Jennifer

Correct Answer:

```

LAST_NAME FIRST_NAME
-----
Vargas Peter
SELECT LAST_NAME
FROM EMPLOYEES
WHERE SALARY =
      (SELECT MIN(SALARY)
       FROM EMPLOYEES);
✔

```

## Question 6

Needs Grading

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

Selected Answer:

```

SELECT l.city AS "City"
FROM locations l
JOIN departments d
ON l.location_id = d.location_id
JOIN employees e
ON d.department_id = e.department_id
WHERE e.salary = (
                    SELECT MIN(salary)
                    FROM employees
                );

```

```

City
-----
south San Francisco
south San Francisco
Seattle

```

Correct Answer: 

```

SELECT DISTINCT CITY
FROM LOCATIONS JOIN DEPARTMENTS USING (LOCATION_ID) JOIN
EMPLOYEES USING (DEPARTMENT_ID)
WHERE SALARY =
              (SELECT MIN(SALARY) FROM EMPLOYEES);
CITY
-----
✓ South San Francisco

```

## Question 7

Needs Grading

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

Selected Answer: 

```

SELECT last_name AS "Last Name", first_name AS "First Name"
FROM Employees
WHERE (department_id, salary) IN (
                                SELECT department_id,
                                MIN(salary)
                                FROM employees
                                GROUP BY department_id)

ORDER BY 1;

```

Last Name	First Name
De Haan	Lex
Fay	Pat
Gietz	William
Kochhar	Neena
LeDuc	Henri
Lorentz	Diana
Matos	Randall
Vargas	Peter
Whalen	Jennifer

9 rows selected.

Correct Answer: 

```

SELECT LAST_NAME
FROM EMPLOYEES
WHERE SALARY IN
      (SELECT MIN(SALARY) FROM EMPLOYEES GROUP BY DEPARTMENT_ID);

```

This answer does not take into account an employee in another department that is not the minimum but matches the minimum.  
 Need to pass back 2 items from subquery

LAST_NAME	FIRST_NAME
Kochhar	Neena
De Haan	Lex
Ernst	Bruce
Lorentz	Diana
Vargas	Peter
Grants	Kimberely
de Man	Spence
Whalen	Jennifer
Fay	Pat
Gietz	William
LeDuc	Henri

11 rows selected

## Question 8

Needs Grading

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

Selected Answer:

```

SELECT e.last_name AS "Last Name",
       l.city AS "City"
FROM employees e
JOIN departments d
USING(department_id)
JOIN locations l
USING(location_id)
WHERE (salary, city) IN (
    SELECT MIN(e.salary),
           l.city
    FROM employees e
    JOIN departments d
    ON e.department_id = d.department_id
    JOIN locations l
    ON d.location_id = l.location_id
    GROUP BY l.city
)
ORDER BY 1;

```

Last Name	City
Fay	Toronto
LeDuc	Oxford
Lorentz	Southlake
Matos	south San Francisco
Vargas	south San Francisco
Whalen	Seattle

Correct Answer:

```

SELECT LAST_NAME
FROM EMPLOYEES
WHERE SALARY IN
    (SELECT MIN(SALARY)
     FROM LOCATIONS JOIN DEPARTMENTS USING (LOCATION_ID)
     JOIN EMPLOYEES USING (DEPARTMENT_ID)
     GROUP BY CITY);
LAST_NAME
-----
Ernst
Lorentz
Vargas
Grants
de Man
Whalen
Fay
✔ LeDuc

```

## Question 9

Needs Grading

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.

Selected Answer:

```

SELECT last_name AS "Last Name", salary AS "Salary"
FROM Employees
WHERE SALARY < ANY (
    SELECT MIN(salary)
    FROM employees
    GROUP BY Department_id)
ORDER BY 2, 1;

```

Last Name	Salary
Matos	2500
Vargas	2500
Whalen	2500
Davies	3100
Rajs	3500
Lorentz	4200
Mourgos	5800
Ernst	6000
Fay	6000
Grants	7000
LeDuc	7000

Last Name	Salary
de Man	7000
Bergsteige	8000
Gietz	8300
O'Brian	8600
Gruber	9000
Hunold	9000
Strandherst	9000
Harvey	10000
Litrand	10000
Young	10000
Zlotkey	10500

Last Name	Salary
Abel	11000
Armarillo	11000
Brigade	11000
Chan	11000
Cornel	11000
Gibbons	11000
Gregson	11000
Grovin	11000
Jacobs	11000
Krain	11000
LeBlanc	11000

Last Name	Salary
Loo Nam	11000
Montoya	11000
Mot	11000
Mustaine	11000
Pallomine	11000
Rodriguez	11000
Sanchez	11000
Smertal	11000
Termede	11000
Testorok	11000
Torson	11000

Last Name	Salary
Turcotte	11000
Wandiko	11000
Whiteduck	11000
Chancevente	12000
Higgins	12000
Hartstein	13000

50 rows selected.

Correct Answer:

```

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
Hartstein	13000
Chancevente	12000
Higgins	12000
Abel	11000
Armarillo	11000
Brigade	11000
Chan	11000
Cornel	11000
Flertjan	11000
Gibbons	11000
Gregson	11000
Gromlin	11000
Jacobs	11000
Krain	11000
LeBlanc	11000
Loo Nam	11000
Montoya	11000
Mot	11000
Mustaine	11000
Pallomine	11000
Rodriguez	11000
Sanchez	11000
Smertal	11000
Termede	11000
Testorok	11000
Torson	11000
Turcotte	11000
Wandiko	11000
Whiteduck	11000
Zlotkey	10500
Harvey	10000
Litrاند	10000
Young	10000
Gruber	9000
Hunold	9000
Strandherst	9000
Taylor	8600
Gietz	8300
Bergsteige	8000
Grants	7000
LeDuc	7000
de Man	7000
Ernst	6000
Fay	6000
Mourgos	5800
Whalen	4400
Lorentz	4200
Rajs	3500
Davies	3100
Matos	2600
Vargas	2500

51 rows selected

## Question 10

Needs Grading

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

Selected Answer: SELECT last\_name AS "Last Name", job\_id AS "Job Title", salary AS "Salary"

```

FROM employees
WHERE salary IN (
    SELECT salary
    FROM employees
    WHERE department_id = 60
)
ORDER BY 3 ASC, 1 ASC;

```

Last Name	Job Title	Salary
Lorentz	IT_PROG	4200
Ernst	IT_PROG	6000
Fay	MK_REP	6000
Gruber	SA_REP	9000
Hunold	IT_PROG	9000
Strandherst	SA_REP	9000

6 rows selected.

Correct Answer:

```
SELECT last_name, job_id, salary
FROM employees
WHERE salary = ANY (
  SELECT salary
  FROM employees
  WHERE job_id = 'IT_PROG'
)
ORDER BY salary, last_name;
```

LAST_NAME	JOB_ID	SALARY
Lorentz	IT_PROG	4200
Ernst	IT_PROG	6000
Fay	MK_REP	6000
Gruber	SA_REP	9000
Hunold	IT_PROG	9000
Strandherst	SA_REP	9000

✔ 6 rows selected

Friday, February 15, 2019 9:57:33 PM EST

← OK