

Students

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Content System

Database Design II and SQL Using Oracle DBS301SEE.09112.2191

Course Documents

Review Test Submission: L3

## Review Test Submission: L3

User	Mailanachchige Don Senal Goonetilaka
Course	Database Design II and SQL Using Oracle
Test	L3
Started	1/17/19 6:56 PM
Submitted	1/25/19 9:03 PM
Due Date	1/25/19 11:59 PM
Status	Needs Grading
Attempt Score	Grade not available.
Time Elapsed	194 hours, 7 minutes
Instructions	This should be completed during week 3 in order to keep up to date
Results Displayed	All Answers, Submitted Answers, Correct Answers

**Question 1 Needs Grading** 

### REMEMBER to copy the SQL and the output to the answer area

For any employees that are in departments 40, 60 and 70 display (1) last name, (2) salary, and (3) the salary if it is increased by 5%. Make sure the output is a whole number. Also add a column that subtracts the old salary from the new salary and multiplies the difference by 12.

Selected Answer:

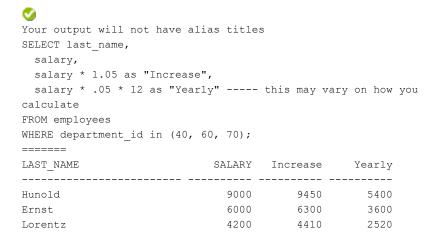
SELECT last\_name "Last Name", salary "Salary", ROUND(salary\*1.05) "Salary if increased by 5%", (salary\*1.05-salary)\*12 "Old salary - new salary \* 12"

FROM employees

WHERE department\_id IN(40,60,70);

Last Name - new salary * 12	Salary	Salary if increased by 5%	Old salary
 Hunold 5400	9000	9450	
Ernst 3600	6000	6300	
Lorentz 2520	4200	4410	

#### Correct Answer:



**Question 2 Needs Grading** 

> Write a query to display the tomorrow's date in the following format:

September 28th of year 2006 <-- this is the format for the date you display. Your result will depend on the day when you create this query.

Label the column Next Day

SELECT TO CHAR(SYSDATE+1, 'MONTH ddth "of year" YYYY') AS Selected

"Next Day" Answer:

FROM DUAL: Next Day

JANUARY 26th of year 2019

Correct

Answer: SELECT to char(sysdate + 1, 'Month ddth "of year"

yyyy') as "Next Day"

FROM dual;

Next Day

September 02nd of year 2018

**Question 3 Needs Grading** 

#### USE CASE statement

Write a query that displays the employee's Full Name and Job Title in the following format: DAVIES, CURTIS is Store Clerk --- do not do all 15 job titles ... just a few will prove you know CASE

Only employees whose last name ends with S and first name starts with C or K. Give this column an appropriate label

Sort the result by the employees' last names.

```
SELECT CASE job id WHEN 'ST MAN' THEN UPPER(last name)||',
Selected
           '||UPPER(first_name)||' is Store Manager' ||"
Answer:
           WHEN 'ST CLERK' THEN UPPER(last name)||', '||UPPER(first name)||' is
           Store Clerk' ||"
           WHEN 'SA REP' THEN UPPER(last name)||', '||UPPER(first name)||' is
           Sales Representative' ||"
           ELSE UPPER(last_name)||', '||UPPER(first_name)||' is an employee'
           END AS "Employee Information"
           FROM employees
           WHERE UPPER(SUBSTR(last_name, -1, 1)) = 'S'
           AND UPPER(SUBSTR(first_name, 1, 1)) IN ('C', 'K')
           ORDER BY last name;
           Employee Information
           DAVIES, CURTIS is Store Clerk
           GRANTS, KIMBERELY is Sales Representative
           MOURGOS, KEVIN is Store Manager
Correct
Answer:
           This answer uses decode, but you need to use CASE
           select upper(last name) || ',' ||upper(first name) || '
           is ' ||
           decode(job id,
           'IT PROG', 'Programmer',
           'AC ACCOUNT', 'Accountant',
            'AC MGR', 'Manager',
           'ST CLERK', 'Store Clerk',
           'SA REP', 'Sales Rep',
           'ST MAN', 'Store Manager',
           'Not Known') AS "Person and Job"
           from employees
           where last name like lower('%S')
           and (first name like upper('c%') or first name like
           upper('k%'))
           order by last name;
           Person and
           Job
           DAVIES, CURTIS is Store
           GRANTS, KIMBERELY is Sales
```

**Question 4 Needs Grading** 

MOURGOS, KEVIN is Store Manager

For each employee hired in 2013, display the employee's last name, hire date and calculate the number of YEARS between TODAY and the date the employee was hired.

Label the column Number of Years Worked. Order your results by the number of years employed. the label to do the order by

# Round the number of years employed up to the closest whole number.

select last\_name, hire\_date, to\_char(round((sysdate - hire\_date)/365)) "Years Selected

Worked" Answer:

from employees

where hire\_date between ('1-JAN-2013') and '31-DEC-2013'

order by "Years Worked";

LAST_NAME	HIRE_DATE	Years Worked	
Sanchez	11-OCT-13	5	
Brigade	21-SEP-13	5	
Gruber	29-SEP-13	5	
Bergsteige	08-AUG-13	5	
Loo Nam	29-APR-13	6	
Montoya	11-FEB-13	6	
Gibbons	23-MAR-13	6	
Strandherst	19-JUL-13	6	
Testorok	03-MAR-13	6	
LeDuc	27-JUL-13	6	
Harvey	06-JUN-13	6	
Grovlin	23-MAR-13	6	

Correct Answer:

```
select last name, hire date, to char(round((sysdate -
hire date)/365)) "Years Worked"
from employees
where hire date between ( '1-JAN-2013') and '31-DEC-2013'
order by "Years Worked"; -- here is a case for using
double quotes as it references an alias
LAST NAME
                          HIRE DATE Years
Worked
Grovlin
                          23-MAR-13
5
Harvey
                          06-JUN-13
5
LeDuc
                          27-JUL-13
5
Bergsteige
                          08-AUG-13
5
Gruber
                          29-SEP-13
Sanchez
                          11-OCT-13
Loo Nam
                          29-APR-13
                          23-MAR-13
Gibbons
Strandherst
                          19-JUL-13
                          21-SEP-13 5
Brigade
                          03-MAR-13 6
Testorok
Montoya
                          11-FEB-13
 12 rows selected
```

**Question 5 Needs Grading** 

> Do the same as the question above butfor how long have the employees worked, but use 2018

Selected SELECT last name, hire date,

ROUND(MONTHS BETWEEN(SYSDATE, hire date)/12) AS "Numbers Answer:

of Years Worked" FROM employees

WHERE TO CHAR(hire date, 'YYYY')= '2018' ORDER BY "Numbers of Years Worked";

no rows selected

Correct Answer:



no rows

**Question 6 Needs Grading**  Create a query that displays the city names, country codes and state/province names, but only for those cities that start on s and have at least 8 characters in their name. If city does not have a province name assigned, then put Province Unknown

Selected SELECT city,

RPAD(country\_id, 14, '') AS "Country Code", Answer:

NVL(state province, 'Province Unknown') AS "Province"

**FROM locations** 

WHERE UPPER(SUBSTR(city, 1, 1))='S'

AND LENGTH(city)>=8;

CITY	Country Code	Province
Southlake	US	Texas
south San Francisco	US	California
South Brunswick	US	New Jersey
Singapore	SG	Province Unknown
Stretford	UK	Manchester
Sao Paulo	BR	Sao Paulo

6 rows selected.

Correct Answer:

SELECT CITY, COUNTRY ID, NVL(STATE PROVINCE, 'UNKNOWN

PROVINCE') "PROVINCE" FROM LOCATIONS

WHERE (CITY LIKE UPPER('S%') AND LENGTH(CITY) >= 8);

sometimes the output does not appear perfect, but this is still very readable for our purposes

CITY		COUNTRY_I	D Province
Sao Paulo		BR	Sao Paulo
Singapore		SG	Unknown Province
South Brunswick	US	New	Jersey
South San Francisco	US	Cali	fornia
Southlake		US	Texas
Stretford		UK	Manchester
6 rows selected			

**Question 7 Needs Grading** 

> Display each employee's last name, hire date, and salary review date. The salary review date is the first Wednesday after a year of service, but only for those hired after 2015.

Format the dates to appear in the format similar to

30-JUN-16 WEDNESDAY, July the Fifth of year 2017 Chan

Selected Answer:

SELECT last name, hire date, TO CHAR(NEXT DAY(ADD MONTHS(hire date, 12), 'WEDNESDAY'), 'DAY Month "the" fmDdspth "of year" YYYY') AS "Salary Review Date" FROM employees WHERE TO NUMBER(TO CHAR(hire date, 'YYYY'))>2015;

LAST_NAME Date	HIRE_DATE	Salary Review	
de Man the Ninth of year	08-MAY-17 - 2018	WEDNESDAY May	
Pallomine		WEDNESDAY	
August the First	of year 2018		
Jacobs	18-APR-17	WEDNESDAY April	
the Twenty-Fift	h of year 2018		
LeBlanc	18-APR-17	WEDNESDAY April	
the Twenty-Fift	h of year 2018	•	
Chan	30-JUN-16	WEDNESDAY July	
the Fifth of yea	•		
Wandiko	18-APR-17	WEDNESDAY April	
the Twenty-Fift	·		
_	18-APR-17	WEDNESDAY April	
the Twenty-Fifth of year 2018			
7 rows selected.	-		

#### Correct Answer:



SELECT last name,

hire date,

to char(next day(add months(hire date,12),'WED'), 'DAY "," Month "the" Ddthsp "of year" YYYY') "Review Day"

FROM EMPLOYEES

WHERE hire date > '31-DEC-2015'; -- or some other combination

LAST\_NAME HIRE\_DATE Review Day

de Man 08-MAY-17 WEDNESDAY, May the Ninth of year 2018 Pallomine 27-JUL-17 WEDNESDAY, August the First of year 2018 Jacobs 18-APR-17 WEDNESDAY, April the Twenty-Fifth of year 2018 LeBlanc 18-APR-17 WEDNESDAY, April the Twenty-Fifth of year 2018 Chan 30-JUN-16 WEDNESDAY, July the Fifth of year 2017 Wandiko 18-APR-17 WEDNESDAY, April the Twenty-Fifth of year 2018 Gregson 18-APR-17 WEDNESDAY, April the Twenty-Fifth of year 2018 7 rows selected

Saturday, February 2, 2019 4:28:25 PM EST

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