

Students

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My.Stuff

Content System

Database Design II and SQL Using Oracle DBS301SEE.09112.2191

Course Documents

Review Test Submission: L4-functions

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Course	Database Design II and SQL Using Oracle
Test	L4-functions
Started	1/31/19 2:52 PM
Submitted	2/1/19 10:09 PM
Due Date	2/1/19 11:59 PM
Status	Needs Grading
Attempt Score	Grade not available.
Time Elapsed	31 hours, 17 minutes

Remember SQL and output whenever question allows for that response. Also Oracle syntax only.

This should be completed in week 4 if you are keeping up

Results Displayed

All Answers, Submitted Answers, Correct Answers

Question 1 Needs Grading

> -- List all the countries that start with a letter entered by the user (prompt). BUT .. if user enters something else it should still work.

NOTE: The user must enter a lowercase letter

Selected

SELECT * Answer:

FROM countries

WHERE LOWER(country name) like LOWER('&EnterLetter%');

Correct Answer:

old:SELECT * FROM countries WHERE country_name LIKE '&EnterrLetter%' new:SELECT * FROM countries WHERE country name LIKE 'a%' -- used lowercase a no rows selected Because it didn't handle lowercase, then you need to write it so it handles any case

Question 2 Needs Grading

-- let's make the previous question easier for the user !!!

SELECT * FROM countries

WHERE <u>UPPER(country_name)</u> LIKE <u>UPPER('&EnterLetter%');</u>

Try it by entering an UPPER and a LOWER value to see the effect. It is very different when compared to the previous questions results.

JUST ANSWER YES if you tried it.

Selected Answer: YES

Correct Answer: O Hopefully ... YES

Question 3 Needs Grading

> Calculate how many letters each country name has in it and list them from most letters to least letters

Selected

Answer:

SELECT country_name,LENGTH("COUNTRY_NAME") FROM countries ORDER BY LENGTH("COUNTRY_NAME") DESC;

COUNTRY_NAME	LENGTH("COUNTRY_NAME")
United States of America	 24
United Kingdom	14
Netherlands	11
Switzerland	11
Argentina	9
Singapore	9
Australia	9
Zimbabwe	8
HongKong	8
Nigeria	7

COUNTRY_NAME	LENGTH("COUNTRY_NAME")
Denmark	7
Germany	7
Mexico	6
Kuwait	6
France	6
Canada	6
Brazil	6
Israel	6
Zambia	6
India	5
Egypt	5

COUNTRY_NAME	LENGTH("COUNTRY_NAME")
China Italy Japan	 5 5 5

25 rows selected.

Correct Answer:



Belgium

```
SELECT country_name, LENGTH(country_name) as "No. of Characters"
FROM countries
ORDER BY "No. of Characters" DESC;
COUNTRY_NAME
                                             No. of
Characters
United States of America
24
United Kingdom
14
Netherlands
11
Switzerland
11
Argentina
Singapore
Australia
Zimbabwe
HongKong
Nigeria
7
Belgium
Denmark
7
Germany
Mexico
Kuwait
France
6
Canada
6
Brazil
Israel
Zambia
India
5
Egypt
China
5
Italy
Japan
 25 rows selected
```

2/2/2019

Question 4 Needs Grading

Show the date 10 days before today (today is not hard coded but is supplied by the

Selected Answer: SELECT SYSDATE "Today", SYSDATE -10 as "10DaysAgo"

FROM dual:

Today 10DaysAgo 01-FEB-19 22-JAN-19

SELECT sysdate "to show today" Correct Answer:

sysdate - 10 AS "to show 10 Days Ago"

FROM dual;

Question 5 Needs Grading

What date is the next Saturday from now

Selected Answer: SELECT NEXT_DAY(sysdate, 'Saturday') AS "Next Sat"

FROM dual;

Next Sat 02-FEB-19

SELECT NEXT_DAY(sysdate, 'Saturday') AS "Next Saturday" Correct Answer:

FROM dual

Question 6 Needs Grading

> Display the difference between the Average pay and Lowest pay in the company.

Name this result The gap

Selected SELECT AVG(salary)-MIN(salary) AS "The gap"

FROM employees; Answer:

> The gap 7472.22222

Correct Answer:

SELECT AVG(salary) -MIN(salary) AS "The gaP"

FROM employees;

The gap _____

7361.111111 --- you should round it for the user

Question 7 Needs Grading Display the (1) department number and (2) Highest, (3) Lowest and (4)Average pay per each department. Do not label the columns .Round the average.

Sort the output so that the department with highest average salary is shown first.

Answer:

Selected SELECT DEPARTMENT ID AS "Department Number", MAX(SALARY) AS "Highest Pay", MIN(SALARY) AS "Lowest Pay", ROUND(AVG(SALARY),0)

AS "Average Salary" FROM EMPLOYEES

GROUP BY DEPARTMENT ID

ORDER BY 4 DESC:

Department Number	Highest Pay	Lowest Pay	Average Salary
90	24000	17000	19333
10	17000	4400	10700
80	12000	7000	10546
110	12000	8300	10150
20	13000	6000	9500
	7000	7000	7000
60	9000	4200	6400
50	5800	2500	3500

8 rows selected.

Correct Answer:



SELECT department id, max(salary), min(salary),

round(avg (salary),0)

FROM employees

GROUP BY department id ORDER BY max(salary) DESC;

DEPARTMENT ID MAX(SALARY) MIN(SALARY)

ROUND (AVG (SALARY), 0)

	90	24000	17000	
19333				
	10	17000	4400	
10700	0.0	10000	6000	
0500	20	13000	6000	
9500	110	12000	8300	
10150	110	12000	8300	
10130	80	12000	7000	
10546	0.0	12000	, 0 0 0	
	60	9000	4200	
6400				
		7000	7000	
7000				
	50	5800	2500	
3500				
8 rows	selected			

2/2/2019

Question 8 Needs Grading

> Display how many people work the same job in the same department.

Name these headings results as No., Job, How Many.

Include only jobs that involve more than one person.

Sort the output so that jobs with the most people involved are shown first.

Selected

Answer:

SELECT DEPARTMENT ID AS "NO", JOB ID AS "JOB", COUNT (EMPLOYEE ID) AS "HOW MANY"

FROM EMPLOYEES GROUP BY DEPARTMENT ID, JOB ID

HAVING COUNT(EMPLOYEE ID)>1 ORDER BY 3 DESC;

NO	JOB	HOW	MANY
80	SA_RE	Р	34
50	ST_CLE	RK	4
60	IT_PRO)G	3
	SA RE	P	2
90	AD_VP		2

Correct Answer: Will have different alias

110 2 2

Question 9 Needs Grading

> Remember SQL and output whenever question allows for that response. Also Oracle syntax only.

This should be completed in <u>week 4</u> if you are keeping up.

For each job ID display the job iD and total amount paid each month for this type of the job. Exclude titles AD PRES and AD VP and also include only jobs that require or exceed more than \$15,000.

Sort the output so that top paid jobs are shown first.

Selected Answer:

SELECT JOB ID, SUM(SALARY) FROM EMPLOYEES WHERE JOB ID != 'AD PRES' AND JOB ID !='AD VP' GROUP BY JOB ID HAVING SUM(SALARY)>=15000 ORDER BY SUM(SALARY) DESC;

```
JOB ID SUM(SALARY)
SA REP
          372600
IT PROG
           19200
AC_REP
           17000
```

Correct Answer:

SELECT JOB ID, SUM(SALARY) AS "Monthly Total" FROM EMPLOYEES GROUP BY JOB ID HAVING JOB ID != 'AD VP' AND JOB ID != 'AD PRES' AND SUM(SALARY) > 15000 ORDER BY STDDEV (SALARY);

	JOB_ID	Sum
	SA REP	383600
Ø	IT PROG	19200

Question 10 Needs Grading

> For each department show the latest and earliest hire date, BUT

- exclude departments 10, 30 and 40
- also exclude those departments where the last person was hired in this century (2000 plus).
- Sort the output so that the most recent, meaning latest hire dates, are shown first.

Selected Answer:

SELECT department id, MIN(hire date) AS "Min", MAX(hire date) AS "MAX" FROM employees WHERE department id NOT IN (10, 30, 40) GROUP BY department id;

DEPARTMENT_ID	Min	MAX
20	17-FEB-96	17-AUG-97
50	17-OCT-95	16-NOV-99
60	03-JAN-90	07-FEB-99
80	11-MAY-96	27-JUL-17
90	17-JUN-87	13-JAN-93
110	07-JUN-94	07-JUN-94

6 rows selected.

Correct Answer:

Output needs fixing to handle --> hired in this century (2000 plus

select department id, min(hire date), max(hire date) from employees

where department_id NOT IN (10, 30, 40) group by department id;

select department id, min(hire date), max(hire date) from employees where department_id NOT IN (10, 30, 40) group by department_id;

DEPARTMENT_ID	MIN(HIRE_DATE)	MAX (HIRE_DATE)
20	17-FEB-96	17-AUG-97
50	17-OCT-95	16-NOV-99
60	03-JAN-90	07-FEB-99
80	11-MAY-96	27-JUL-17
90	17-JUN-87	13-JAN-93
110	07-JUN-94	07-JUN-94
6 rows selec	cted	

Question 11 Needs Grading

List all the countries and replace all letter "a"'s with a space.

Selected Answer:

```
SELECT REPLACE(COUNTRY NAME, 'a',' ')
FROM COUNTRIES;
```

REPLACE(COUNTRY_NAME,'A',")

Argentin

Austr li

Belgium

Br zil

Cnd

Switzerl nd

Chin

Germ ny

Denm rk

Egypt

Fr nce

REPLACE(COUNTRY_NAME,'A',")

HongKong

Isr el

Indi

It ly

Jpn

Kuw it

Mexico

Nigeri

Netherl nds

Sing pore

United Kingdom

REPLACE(COUNTRY_NAME,'A',")

United St tes of Americ

Z mbi

Zimb bwe

25 rows selected.

Correct



Answer: SELECT country name,

REPLACE (country name, 'a', ' ') AS "New"

FROM countries;

Kuwait Kuw

it

Mexico

Mexico

Nigeria

Nigeri

Netherlands Netherl

nds

Singapore Sing

pore

United Kingdom United

Kingdom

United States of America United St tes

of Americ

Zambia Ζ

mbi

Zimbabwe Zimb

bwe

Question 12 Needs Grading

> For each manager number display how many persons he / she supervises.

- -- Exclude managers with numbers 100, 101 and 102 and
- -- include only those managers that supervise more than 2 persons.
- -- Sort the output so that manager numbers with the most supervised persons are shown first.

This is often on a test or a question like it.

Selected

Answer:

SELECT MANAGER_ID AS "Manager ID", COUNT(EMPLOYEE_ID) AS

"Number Of Employees" FROM EMPLOYEES

WHERE EMPLOYEE ID !=100 AND EMPLOYEE ID !=101 AND

EMPLOYEE ID !=102

GROUP BY MANAGER ID HAVING COUNT(EMPLOYEE ID)>2

ORDER BY 2 DESC:

Manager ID	Number Of Employees
149	37
124	4
100	3

Correct Answer: 🔇 no answer provided as this is often on a test or assignment

Question 13 Needs Grading

> Select dept. ID, job and count of number employees as long as there are more than 2 employees with that job in a department.

Sort by department then by job within department

EXTRA if you want to do it:

Display each department id with department name and highest salary in that department

Selected

Answer:

SELECT DEPARTMENT ID, JOB ID, COUNT(EMPLOYEE ID) FROM EMPLOYEES GROUP BY JOB ID, DEPARTMENT ID HAVING COUNT(EMPLOYEE ID)>2 ORDER BY DEPARTMENT ID;

DEPARTMENT_ID	JOB_ID	COUNT(EMPLOYEE_ID)
50	ST_CLE	RK 4
60	IT_PRO	3
80	SA_REP	34

Correct select department_id, job_id, count(*) Answer: from employees group by job id, department id having count(*) > 2 order by 1,2 DEPARTMENT_ID JOB_ID COUNT(*) 50 ST_CLERK

> 80 SA REP 34

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Question 14 Needs Grading

60 IT PROG

TRY THIS ONE

List the customer number and how many orders they have placed. Only show those customers that have more than4 orders. List the customers based on the highest number of orders first down to the lowest.

Selected Answer: SELECT cust_no, COUNT(channel)

FROM "ORDERS"

GROUP BY cust no HAVING COUNT (channel)>4

ORDER BY 2 DESC;

CUST NO COUNT(CHANNEL)

1008	12
1056	11
1022	9
1011	9
1148	9
1066	8
1095	8
1036	6
1092	6
1041	6
1130	6

CUST_NO COUNT(CHANNEL)

1085	5
1102	5
1038	5

14 rows selected.

Correct Answer:

SELECT cust_no, count(order_no) FROM orders GROUP BY cust no having count (order_no) > 4 order by 1; CUST_NO COUNT(ORDER_NO) 14 rows selected

Friday, February 1, 2019 10:13:01 PM EST

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