L3-W4-DBS301-select with date

Due Friday midnight of week 4

*STEP 1: rename this file to L3-your id name*

*STEP 2: Put the SQL and the results after each question below*

*STEP 3: Email this back before the deadline*

*Initiate a SQL\*Plus session using the user ID and password provided by your instructor on the Zenit server for NEPTUNE database*

1. Write a query to display the tomorrow’s date in the following format:

*September 28th of year 2006*

Your result will depend on the day when you create this query.

Label the column Tomorrow.

SELECT to\_char(sysdate+1,'Month ddth "of year" YYYY') AS "Tomorrow"

FROM DUAL;

Tomorrow

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May 21st of year 2016

1 rows selected

2. For each employee in departments 20, 50 and 60 display last name, first name, salary, and salary increased by 7% and expressed as a whole number.

Label the column Good Salary.

Also add a column that subtracts the old salary from the new salary and multiplies by 12.

Label the column Annual Pay Increase.

SELECT LAST\_NAME, FIRST\_NAME, SALARY, (SALARY\*(1+0.07)) AS "Good Salary", ((SALARY\*0.07) \* 12) AS "Annual Pay Increase"

FROM EMPLOYEES

WHERE DEPARTMENT\_ID IN (20,50,60);

LAST\_NAME FIRST\_NAME SALARY Good Salary Annual Pay Increase

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Hartstein Michael 13000 13910 10920

Fay Pat 6000 6420 5040

Mourgos Kevin 5800 6206 4872

Rajs Trenna 3500 3745 2940

Davies Curtis 3100 3317 2604

Matos Randall 2600 2782 2184

Vargas Peter 2500 2675 2100

Hunold Alexander 9000 9630 7560

Ernst Bruce 6000 6420 5040

Lorentz Diana 4200 4494 3528

10 rows selected

3. Write a query that displays the employee’s Full Name and Job Title in the following format:

*DAVIES, CURTIES is Store Clerk*

Only employees whose last name ends with *S* and first name starts with *C* or *K*.

Give this column an appropriate label like *Person and Job*

Sort the result by the employees’ last names.

SELECT

CASE UPPER(JOB\_ID)

WHEN 'ST\_CLERK' THEN

UPPER(LAST\_NAME) ||' , '|| UPPER(FIRST\_NAME) ||' is Store Clerk'

WHEN 'ST\_MAN' THEN

UPPER(LAST\_NAME) ||' , '|| UPPER(FIRST\_NAME) ||' is Store Manager'

END AS "Person and Job"

FROM EMPLOYEES

WHERE UPPER(LAST\_NAME) LIKE '%S'

AND (UPPER(FIRST\_NAME) LIKE 'C%' OR UPPER(FIRST\_NAME) LIKE 'K%')

ORDER BY LAST\_NAME;

Person and Job

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DAVIES , CURTIS is Store Clerk

MOURGOS , KEVIN is Store Manager

2 rows selected

4. For each employee hired before 1992, 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 Years worked.

Order your results by the number of years employed.

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

SELECT last\_name, hire\_date, ROUND(TO\_CHAR(sysdate-hire\_date)/365, 0) AS "Years worked"

FROM employees

WHERE hire\_date < '92-01-01'

ORDER BY "Years worked" DESC;

LAST\_NAME HIRE\_DATE Years worked

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King 87-06-17 29

Whalen 87-09-17 29

Kochhar 89-09-21 27

Hunold 90-01-03 26

Ernst 91-05-21 25

5 rows selected

5. 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 province name assigned, then put *Unknown Province.*

SELECT CITY, COUNTRY\_ID, NVL(STATE\_PROVINCE, 'Unknown Province') AS "STATE\_PROVIONCE"

FROM LOCATIONS

WHERE CITY LIKE 'S%'

AND LENGTH(CITY) >= 8;

CITY COUNTRY\_ID STATE\_PROVIONCE

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Sao Paulo BR Sao Paulo

Singapore SG Unknown Province

South Brunswick US New Jersey

South San Francisco US California

Southlake US Texas

Stretford UK Manchester

6 rows selected

6. Display each employee’s last name, hire date, and salary review date, which is the first Tuesday after a year of service, but only for those hired after 1997.

Label the column REVIEW DAY.

Format the dates to appear in the format similar to

*TUESDAY, August the Thirty-First of year1998*

*SELECT LAST\_NAME, HIRE\_DATE,*

*TO\_CHAR((NEXT\_DAY(ADD\_MONTHS(HIRE\_DATE, 12), 'TUESDAY')), 'DAY, Month "the" Ddspth "of year"YYYY') AS "REVIEW DAY"*

*FROM EMPLOYEES*

*WHERE HIRE\_DATE >= '98-01-01';*

*LAST\_NAME HIRE\_DATE REVIEW DAY*

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*Lorentz 99-02-07 TUESDAY , February the Eighth of year2000*

*Mourgos 99-11-16 TUESDAY , November the Twenty-First of year2000*

*Matos 98-03-15 TUESDAY , March the Sixteenth of year1999*

*Vargas 98-07-09 TUESDAY , July the Thirteenth of year1999*

*Zlotkey 00-01-29 TUESDAY , January the Thirtieth of year2001*

*Taylor 98-03-24 TUESDAY , March the Thirtieth of year1999*

*Grant 99-05-24 TUESDAY , May the Thirtieth of year2000*

*7 rows selected*