* **Question 1**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | REMEMBER to copy the SQL and the output to the answer area  Any employees that are in departments 40, 60 and 80 display last name,  salary, and 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.  Label that last column   Cost of Pay Increase |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  last\_name,          salary,          ROUND(salary \* 1.05),          ((ROUND(salary \* 1.05) - salary) \* 12) AS "Cost of Pay Increase"  FROM    employees  WHRERE  department\_id in(40,60,80);    LAST\_NAME                     SALARY ROUND(SALARY\*1.05) Cost of Pay Increase  ------------------------- ---------- ------------------ --------------------Hunold                          9000               9450                 5400  Ernst                           6000               6300                 3600  Lorentz                         4200               4410                 2520  Zlotkey                        10500              11025                 6300  Abel                           11000              11550                 6600  Taylor                          8600               9030                 5160  Flertjan                       11000              11550                 6600  Grovlin                        11000              11550                 6600  Smertal                        11000              11550                 6600  Mustaine                       11000              11550                 6600  Harvey                         10000              10500                 6000  LAST\_NAME                     SALARY ROUND(SALARY\*1.05) Cost of Pay Increase  ------------------------- ---------- ------------------ --------------------LeDuc                           7000               7350                 4200  Bergsteige                      8000               8400                 4800  Gruber                          9000               9450                 5400  Sanchez                        11000              11550                 6600  Chancevente                    12000              12600                 7200  Torson                         11000              11550                 6600  Cornel                         11000              11550                 6600  Gibbons                        11000              11550                 6600  Pallomine                      11000              11550                 6600  Jacobs                         11000              11550                 6600  Strandherst                     9000               9450                 5400  LAST\_NAME                     SALARY ROUND(SALARY\*1.05) Cost of Pay Increase  ------------------------- ---------- ------------------ --------------------Brigade                        11000              11550                 6600  Litrand                        10000              10500                 6000  Armarillo                      11000              11550                 6600  Mot                            11000              11550                 6600  Turcotte                       11000              11550                 6600  LeBlanc                        11000              11550                 6600  Rodriguez                      11000              11550                 6600  Young                          10000              10500                 6000  Loo Nam                        11000              11550                 6600  Chan                           11000              11550                 6600  Wandiko                        11000              11550                 6600  LAST\_NAME                     SALARY ROUND(SALARY\*1.05) Cost of Pay Increase  ------------------------- ---------- ------------------ --------------------Gregson                        11000              11550                 6600  Krain                          11000              11550                 6600  Termede                        11000              11550                 6600  Testorok                       11000              11550                 6600  Whiteduck                      11000              11550                 6600  Montoya                        11000              11550                 6600 39 rows selected. | | Correct Answer: | Correct  SELECT last\_name, salary, salary \* 1.05 ,salary \* .05 \* 12 as "Cost of Pay Increase"  FROM employees  WHERE department\_id in (40,60, 80);    last rows displayed only  Turcotte                       11000       11550                 6600  LeBlanc                        11000       11550                 6600  Rodriguez                      11000       11550                 6600  Young                          10000       10500                 6000  Loo Nam                        11000       11550                 6600  Chan                           11000       11550                 6600  Wandiko                        11000       11550                 6600  Gregson                        11000       11550                 6600  Krain                          11000       11550                 6600  Termede                        11000       11550                 6600  Testorok                       11000       11550                 6600  Whiteduck                      11000       11550                 6600  Montoya                        11000       11550                 6600     39 rows selected | | Response Feedback: | [None Given] | |  |  |  |

* **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 |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  to\_char(sysdate+1,'Month dd"th of year" yyyy') As "Next Day"  FROM    dual;  Next Day  ---------------------------  September 21th of year 2018 | | Correct Answer: | Correct  SELECT to\_char(sysdate + 1, 'Month ddth "of year" yyyy') as "Next Day"  FROM dual;    Next Day  ---------------------------  September 02nd of year 2018 | | Response Feedback: | Will not work. should be 21st not 21th | |  |  |  |

* **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 Only employees whose last name ends with S and first name starts with  C or K. Give this column an appropriate labe Sort the result by the employees’ last names. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  UPPER(last\_name)||','||          UPPER(first\_name)||' is ' ||          CASE job\_id WHEN 'ST\_CLERK' THEN 'Store Clerk'                      WHEN 'ST\_MAN' THEN 'Store Manager'                      WHEN 'SA\_REP' THEN 'Sales Representative'                      WHEN 'SA\_MAN' THEN 'Sales Manager'          ELSE        'not assigned any job title'          END         AS "Employee - Position"  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 - Position  ----------------------------------------------------------------------------DAVIES,CURTIS is Store Clerk  GRANTS,KIMBERELY is Sales Representative  MOURGOS,KEVIN is Store Manager | | Correct Answer: | Correct  **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 Clerk  GRANTS,KIMBERELY is Sales Rep  MOURGOS,KEVIN is Store Manager | | Response Feedback: | [None Given] | |  |  |  |

* **Question 4**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | 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.  Use the label to do the order by  Round the number of years employed up to the closest whole number. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  last\_name,          hire\_date,          ROUND(MONTHS\_BETWEEN(SYSDATE,hire\_date)/12) AS "Years Worked"  FROM    employees  WHERE   TO\_NUMBER(TO\_CHAR(hire\_date,'YYYY')) = 2013  ORDER BY "Years Worked";  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            5  Sanchez                   11-OCT-13            5  Loo Nam                   29-APR-13            5  Gibbons                   23-MAR-13            5  Strandherst               19-JUL-13            5  Brigade                   21-SEP-13            5  Testorok                  03-MAR-13            6  LAST\_NAME                 HIRE\_DATE Years Worked  ------------------------- --------- ------------  Montoya                   11-FEB-13            6 12 rows selected. | | Correct Answer: | Correct  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";  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 5  Sanchez                   11-OCT-13 5  Loo Nam                   29-APR-13 5  Gibbons                   23-MAR-13 5  Strandherst               19-JUL-13 5  Brigade                   21-SEP-13 5  Testorok                  03-MAR-13 6    <== check this is correct  Montoya                   11-FEB-13 6     12 rows selected | | Response Feedback: | [None Given] | |  |  |  |

* **Question 5**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Do the same as the question above butfor how long have the employees worked, but use 2018 |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  last\_name,          hire\_date,          ROUND(MONTHS\_BETWEEN(SYSDATE,hire\_date)/12) AS "Years Worked"  FROM    employees  WHERE   TO\_NUMBER(TO\_CHAR(hire\_date,'YYYY')) = 2018  no rows selected  Since there is not any employee hired in year 2018, the query has not any output. | | Correct Answer: | Correct  no rows | | Response Feedback: | [None Given] | |  |  |  |

* **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 Answer: | SELECT  city,          country\_id,          NVL(state\_province,'Province Unknown') AS "State/Province"  FROM    locations  WHERE   SUBSTR(city,1,1) = 'S'  AND     LENGTH(city) >= 8;  CITY                           CO State/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: | Correct  SELECT CITY, COUNTRY\_ID, NVL(STATE\_PROVINCE, 'UNKNOWN PROVINCE') "PROVINCE" FROM LOCATIONS WHERE (CITY LIKE UPPER('S%') AND LENGTH(CITY) >= 8 );  CITY                           COUNTRY\_ID Province                 ------------------------------ ---------- ------------------------- 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 | | Response Feedback: | [None Given] | |  |  |  |

* **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  Chan                      30-JUN-16 WEDNESDAY , July      the Fifth of year 2017 |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT  last\_name AS "Last Name",          hire\_date AS "Hire Date",          TO\_CHAR(NEXT\_DAY(ADD\_MONTHS(HIRE\_DATE,12),'WEDNESDAY'),          'DAY, Month "the" DdSpTh "of year" YYYY') AS "Salary Review Day"  FROM    employees  WHERE   TO\_NUMBER(TO\_CHAR(hire\_date,'YYYY')) > 2015;  Last Name                 Hire Date Salary 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. | | Correct Answer: | Correct  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 | | Response Feedback: | [None Given] | |  |  |  |