Homework

4-2: Number Functions

# Vocabulary

Functia TRUN =Used to terminate the column, expression, or value to a specified number of decimal places

Number Functions = These functions accept numeric input and return numeric values.

Functia MOD = Returns the remainder of a division.

Functia Round = Rounds the column, expression, or value to a set number of decimal places.

# Try It / Solve It

1. Display Oracle database employee last\_name and salary for employee\_ids between 100 and 102. Include a third column that divides each salary by 1.55 and rounds the result to two decimal places.

SELECT last\_name, salary, ROUND(salary/1.55, 2) AS "Noile salarii"

FROM employees

WHERE employee\_id BETWEEN 100 and 102;

1. Display employee last\_name and salary for those employees who work in department 80. Give each of them a raise of 5.333% and truncate the result to two decimal places.

SELECT last\_name, salary, TRUNC(salary + 0.05333 \* salary, 2) AS "Noile salarii"

FROM employees

WHERE department\_id = 80;

1. Use a MOD number function to determine whether 38873 is an even number or an odd number.

SELECT MOD(38873, 2)

FROM DUAL;

REZULTATUL ESTE 1, deci este impar.

2

1. Use the DUAL table to process the following numbers:

845.553 - round to one decimal place 30695.348 - round to two decimal places 30695.348 - round to -2 decimal places

2.3454 - truncate the 454 from the decimal place

SELECT ROUND(845.553,1) , ROUND(30695.348,2), ROUND(30695.348,-2), TRUNC(2.3454, 1)

FROM DUAL;

1. Divide each employee’s salary by 3. Display only those employees’ last names and sala- ries who earn a salary that is a multiple of 3.

SELECT last\_name, salary, salary / 3

FROM employees

WHERE MOD(salary,3) = 0;

1. Divide 34 by 8. Show only the remainder of the division. Name the output as EXAMPLE.

SELECT MOD(34,8) Example

FROM DUAL;

1. How would you like your paycheck – rounded or truncated? What if your paycheck was calculated to be $565.784 for the week, but you noticed that it was issued for $565.78. The loss of .004 cent would probably make very little difference to you. However, what if this was done to one thousand people, one hundred thousand people, or one million peo- ple! Would it make a difference then? How much of a difference?

SELECT (565.784 - TRUNC(565.784, 2)) \* 10000 AS "10000 People", (565.784 - TRUNC(565.784, 2)) \* 1000000 AS "1000000 People"

FROM DUAL

Pt 10000 de oameni suma cumulate este de 40$, iar pt 1.000.000 de oameni suma acumulata este de 4000 .