

Number Functions

Objectives

- Select and apply the single-row number functions ROUND, TRUNC, and MOD in a SQL query
- Distinguish between the results obtained when TRUNC is applied to a numeric value and ROUND is applied to a numeric value
- State the implications for business when applying TRUNC and ROUND to numeric values

Vocabulary

Directions: Identify the vocabulary word for each definition below.

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| 1. _____ | Used to terminate the column, expression, or value to a specified number of decimal places |
| 2. _____ | These functions accept numeric input and return numeric values. |
| 3. _____ | Returns the remainder of a division. |
| 4. _____ | 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.

2. Display employee last_name and salary for those employees who work in department 80. Give each of them a raise of 5.33% and truncate the result to two decimal places.

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

4. 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

5. Divide each employee's salary by 3. Display only those employees' last names and salaries who earn a salary that is a multiple of 3.

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

7. 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 a thousand people, a 100,000 people, or a million people! Would it make a difference then? How much difference?