

Database Programming with SQL

5-3: Conditional Expressions

Practice Activities

Objectives

- Compare and contrast the DECODE and CASE functions
- Construct and execute a SQL query that correctly uses the DECODE and CASE functions
- Construct and execute two methods for implementing IF-THEN-ELSE conditional logic

Vocabulary

Identify the vocabulary word for each definition below.

DECODE	Compares an expression to each of the search values
conditional expression	An if-then-else expression whose value depends on the truth- value of a Boolean expression.
CASE	Implements conditional processing within a SQL statement; it meets the ANSI standard.

Try It / Solve It

- 1. From the DJs on Demand d songs table, create a guery that replaces the 2-minute songs with "shortest" and the 10-minute songs with "longest". Label the output column "Play Times".
- 2. Use the Oracle database employees table and CASE expression to decode the department id. Display the department id, last name, salary, and a column called "New Salary" whose value is based on the following conditions:

If the department id is 10 then 1.25 * salary If the department id is 90 then 1.5 * salary If the department id is 130 then 1.75 * salary Otherwise, display the old salary.

3. Display the first name, last name, manager ID, and commission percentage of all employees in departments 80 and 90. In a 5th column called "Review", again display the manager ID. If they don't have a manager, display the commission percentage. If they don't have a commission, display 99999.

SELECT TITLE, CASE duration WHEN '2' THEN 'Shortest' WHEN '10' THEN 'Longest' **ELSE** duration **END** as "Play Times"

2.SELECT department_id,last_name,salary, DECODE (department_id, 10,1.25*salary, 90,1.5*salary, 130,1.75*salary, salary)

SELECT first name, last name, manager_id, commission_pct,

COALESCE (manager_id,commission_pct,99999) as "Review"

as "New Salary"

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FROM employees;

WHERE department_id in (80, 90);