 



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 query that replaces the 2-minute songs with “shortest” and the 10-minute songs with “longest”. Label the output column “Play Times”.

SELECT TITLE,

CASE DURATION

WHEN '2 min' then 'SHORTEST'

WHEN '10 min' THEN 'LONGEST'

ELSE DURATION END

AS "PLAY TIMES"

FROM D\_SONGS

1. 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.

SELECT DEPARTMENT\_ID, LAST\_NAME, SALARY,

CASE DEPARTMENT\_ID

WHEN 10 THEN 1.25\*SALARY

WHEN 90 THEN 1.5\*SALARY

WHEN 30 THEN 1.75\*SALARY

ELSE SALARY

END AS

"NEW SALARY"

FROM EMPLOYEES

1. 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 FIRST\_NAME, LAST\_NAME, MANAGER\_ID, COMMISSION\_PCT,

CASE

WHEN MANAGER\_ID IS NULL AND COMMISSION\_PCT IS NULL THEN 99999

WHEN MANAGER\_ID IS NULL THEN COMMISSION\_PCT

ELSE MANAGER\_ID END

AS "REVIEW"

FROM EMPLOYEES

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