 



Database Programming with SQL

* 1. : Oracle Nonequijoins and Outer Joins Practice Activities

# Objectives

* + - Construct and execute a SELECT statement to access data from more than one table using a nonequijoin
    - Create and execute a SELECT statement to access data from more than one table using an Oracle outer join

# Try It / Solve It

1. Create a join based on the cost of the event between the DJs on Demand tables D\_EVENTS and D\_PACKAGES. Show the name of the event and the code for each event.

SELECT d\_events.name, d\_packages.code

from d\_events, d\_packages

where d\_events.cost >= d\_packages.low\_range(+) and d\_events.cost<=d\_packages.high\_range(+)

1. Using the Oracle database, create a query that returns the employee last name, salary, and job- grade level based on the salary. Select the salary between the lowest and highest salaries.

SELECT employees.last\_name, employees.salary, jobs.job\_title

from employees, jobs

where employees.salary between jobs.min\_salary and jobs.max\_salary

1. What condition requires the creation of a nonequijoin?

Sa nu fie egalitate intre doua coloane din tabele diferite, dar totusi sa poata fi exprimata o relatie aproximativa (gen between)

1. Rewrite the following nonequijoin statement using the logical condition operators (AND, OR, NOT): WHERE a.ranking BETWEEN g.lowest\_rank AND g.highest\_rank

where a.ranking >= g.lowest\_rank and a.ranking <= highest\_rank

1. How do you know when to use a table alias and when not to use a table alias?

Cand am doua coloane din tabele diferite, coloane cu acelasi nume, le pot diferentia cu tableName.columnName, dar e mai facil sa folosesc un alias.

1. What kind of join would you use if you wanted to find data between a range of numbers?

Nonequijoin

1. You need to produce a report for Global Fast Foods showing customers and orders. A customer must be included on the report even if the customer has had no orders.

SELECT f\_customers.last\_name, f\_orders.order\_number

from f\_customers, f\_orders

where f\_customers.id = f\_orders.cust\_id(+)

1. Create a query of the Oracle database that shows employee last names, department IDs, and department names. Include all employees even if they are not assigned to a department.

SELECT employees.last\_name, employees.department\_id, departments.department\_name

FROM employees, departments

WHERE employees.department\_id = departments.department\_id(+);

1. Modify the query in problem 8 to return all the department IDs even if no employees are assigned to them.

SELECT employees.last\_name, employees.department\_id, departments.department\_name

FROM employees, departments

WHERE employees.department\_id(+) = departments.department\_id;

1. There are one or more errors in each of the following statements. Describe the errors and correct them.
   1. WHERE e.department\_id(+) = d.department\_id (+);

asta s-ar vrea un full outer join. Nu poti sa il definesti asa. Trebuie sa folosesti sintaxa full outer join in FROM, nu in WHERE

* 1. SELECT e.employee id, e. last name, d. location id FROM employees, departments

WHERE e.department\_id = d.department\_id(+);

numele coloanelor fie nu sunt atasate de alias, fie nu sunt scrise corect. Si apropo, in FROM, tabelele nu au primit un alias

1. Create a query that will show all CD titles and song IDs in the DJs on Demand database even if there is no CD number in the track-listings table.

SELECT d\_cds.title , d\_track\_listings.song\_id

FROM d\_cds, d\_track\_listings

WHERE d\_cds.cd\_number = d\_track\_listings.cd\_number(+) ;

1. How many times has someone asked you: “What do you want to be when you grow up?” For most of us, the first thing that comes to mind is something like business manager, engineer, teacher, game designer, doctor, scientist, computer programmer, or accountant -- all pretty much traditional career choices. Have you ever thought about working in an odd job or nontraditional career? There are people who are professional shoppers for busy executives, directors of zoos, recipe designers, insecticide chemists, golf-course designers, and turf managers. Picture yourself in a dream job or nontraditional career doing something that you think would be interesting, life fulfilling, and profitable.

Use Internet resources to explore your idea. Write a brief description of the job to share with the class.