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# Objectives

* Compare and contrast an inner and an outer join
* Construct and execute a query to use a left outer join
* Construct and execute a query to use a right outer join
* Construct and execute a query to use a full outer join

# Vocabulary

Identify the vocabulary word for each definition below.

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| --- | --- |
| Full outer join | Performs a join on two tables, retrieves all the rows in the Left table, even if there is no match in the Right table. It also retrieves all the rows in the Right table, even if there is no match in the Left table. |
| outer | A join that returns the unmatched rows as well as matched rows |
| Left outer | Performs a join on two tables, retrieves all the rows in the Left table even if there is no match in the Right table. |
| Right outer | Performs a join on two tables, retrieves all the rows  in the Right table even if there is no match in the Left table. |
| Inner join | A join of two or more tables that returns only matched rows |

# Try It / Solve It

Use the Oracle database for problems 1-7.

1. Return the first name, last name, and department name for all employees including those employees not assigned to a department.

select E.first\_name, E.last\_name, D.department\_name

from employees E left outer join departments D on (E.department\_Id=D.department\_id)

1. Return the first name, last name, and department name for all employees including those departments that do not have an employee assigned to them.

select E.first\_name, E.last\_name, D.department\_name

from employees E right outer join departments D on (E.department\_Id=D.department\_id)

1. Return the first name, last name, and department name for all employees including those departments that do not have an employee assigned to them and those employees not assigned to a department.

select E.first\_name, E.last\_name, D.department\_name

from employees E full outer join departments D on (E.department\_Id=D.department\_id)

1. Create a query of the DJs on Demand database to return the first name, last name, event date, and description of the event the client held. Include all the clients even if they have not had an event scheduled.

select D.first\_name, D.last\_name, E.event\_date, E.description

from d\_clients D left outer join d\_events E on (E.client\_number = D.client\_number)

1. Using the Global Fast Foods database, show the shift description and shift assignment date even if there is no date assigned for each shift description.

select S.description, A.shift\_assign\_date

from f\_shifts S LEFT OUTER JOIN f\_shift\_assignments A ON A.code = S.code;

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