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Database Programming with SQL 6-1: Cross Joins and Natural Joins Practice Activities

# Objectives

* Construct and execute a natural join using ANSI-99 SQL join syntax
* Create a cross join using ANSI-99 SQL join syntax
* Explain the importance of having a standard for SQL as defined by ANSI
* Describe a business need for combining information from multiple data sources

# Vocabulary

Identify the vocabulary word for each definition below.

|  |  |
| --- | --- |
| CROSS JOIN | Returns the Cartesian product from two tables. |
| NATURAL JOIN | Joins two tables based on the same column name. |

# Try It / Solve It

Use the Oracle database for problems 1-3.

1. Create a cross-join that displays the last name and department name from the employees and de- partments tables.

SELECT last\_name, department\_name

FROM employees CROSS JOIN departments

1. Create a query that uses a natural join to join the departments table and the locations table. Display the department id, department name, location id, and city.

SELECT department\_id, department\_name, location\_id, city

FROM departments NATURAL JOIN locations

1. Create a query that uses a natural join to join the departments table and the locations table. Re- strict the output to only department IDs of 20 and 50. Display the department id, department name, location id, and city.

SELECT department\_id, department\_name, location\_id, city

FROM departments NATURAL JOIN locations

WHERE department\_id = 20 or department\_id = 50

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