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.

	Returns the Cartesian product from two tables.
	Joins two tables based on the same column name.

Try It / Solve It

Use the Oracle database for problems 1-4.

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

2. What is the result of the query that you have used for question 1?

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

4. Create a query that uses a natural join to join the departments table by the location_id column. Restrict the output to only department IDs of 20 and 50. Display the department id, department name, location id, and city.