ORACLE

RUTGERS | CODING BOOTCAMP

Session 12.1 - MySQL

MySQL and Relational Databases

Objectives

- Install MySQL to begin working with server side databases

- What is MySQL?

- What are relational databases?

- Get up and running with databases. Creating tables, performing queries and joins.

What is MySQL?

- MySQL (officially pronounced as /maɪ ˌɛskjuːˈɛl/ "My S-Q-L") is an open-source relational database management system (RDBMS); in July 2013, it was the world's second most widely used RDBMS, and the most widely used open-source client–server model RDBMS.

Install MySQL

http://dev.mysql.com/downloads/mysql/

Relational Database

A relational database is a collection of data items organized as a set of formally-described tables from which data can be accessed or reassembled in many different ways without having to reorganize the database tables. The relational database was invented by E. F. Codd at IBM in 1970.
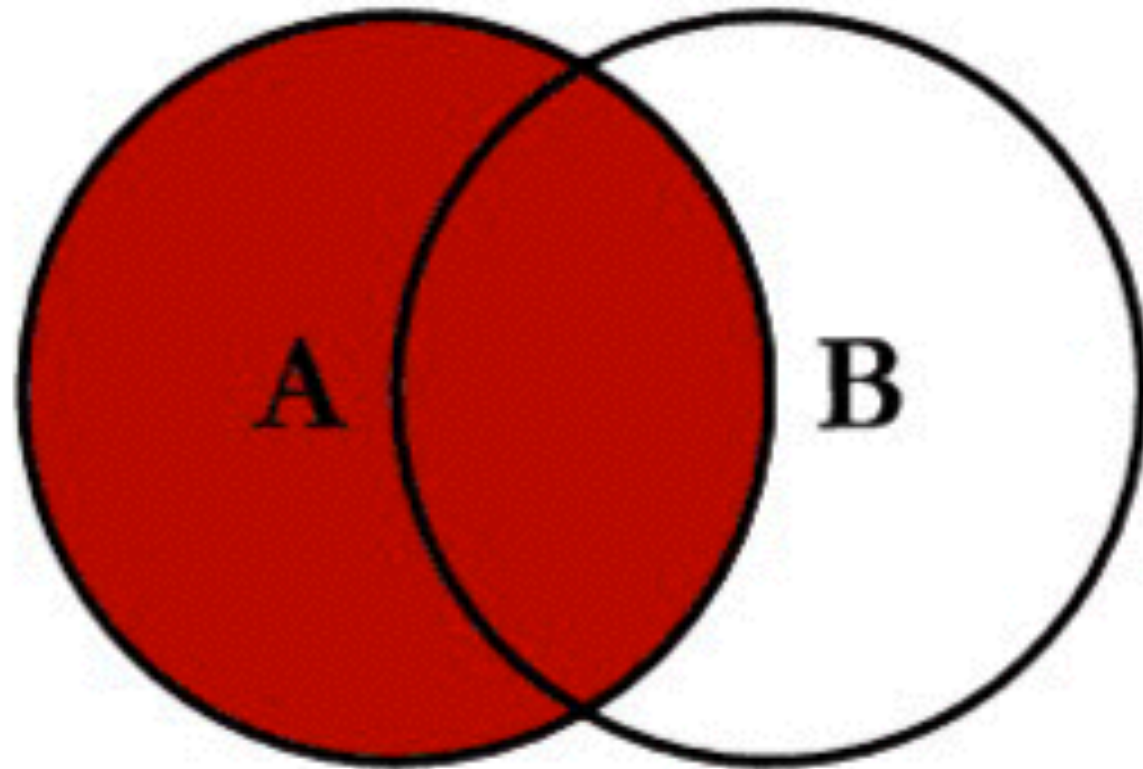
What Is a Query?

A query is an inquiry into the database using the SELECT statement. A query is used to extract data from the database in a readable format according to the user's request. For instance, if you have an employee table, you might issue a SQL statement that returns the employee who is paid the most. This request to the database for usable employee information is a typical query that can be performed in a relational database.
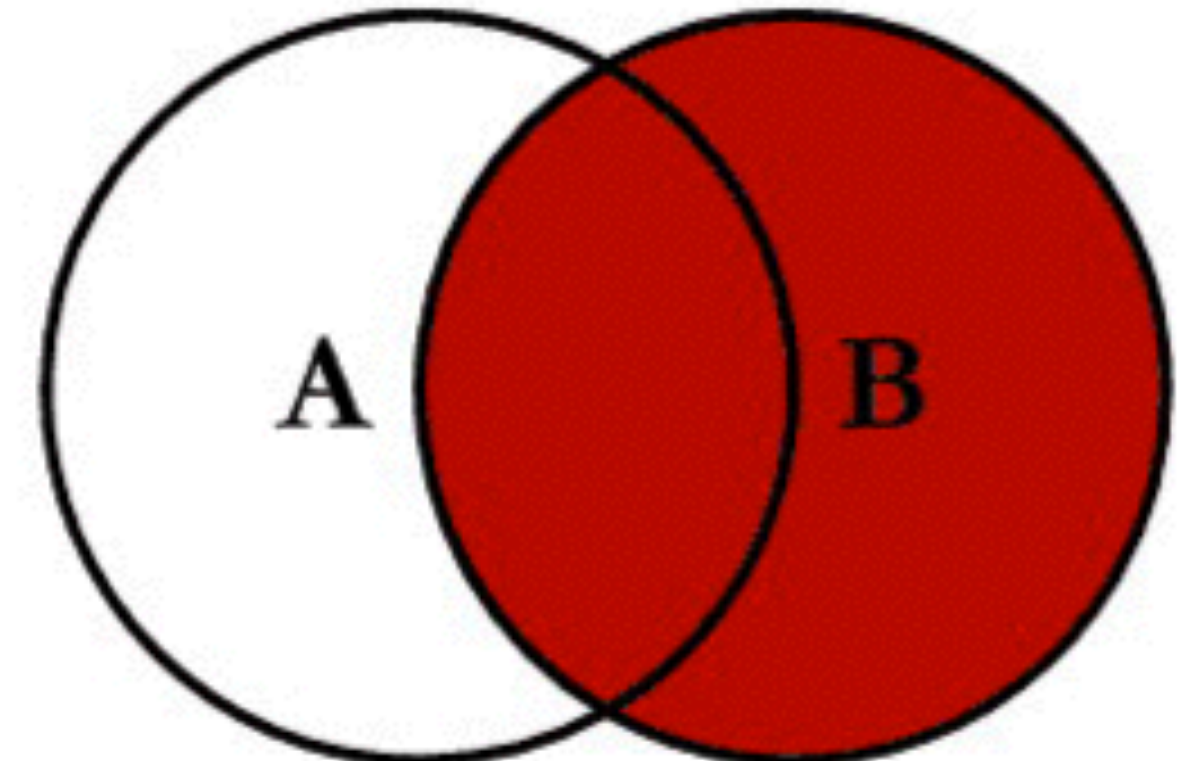
Join (SQL)

Joins. A join is a query that combines rows from two or more tables, views, or materialized views. Oracle Database performs a join whenever multiple tables appear in the FROM clause of the query. The select list of the query can select any columns from any of these tables.
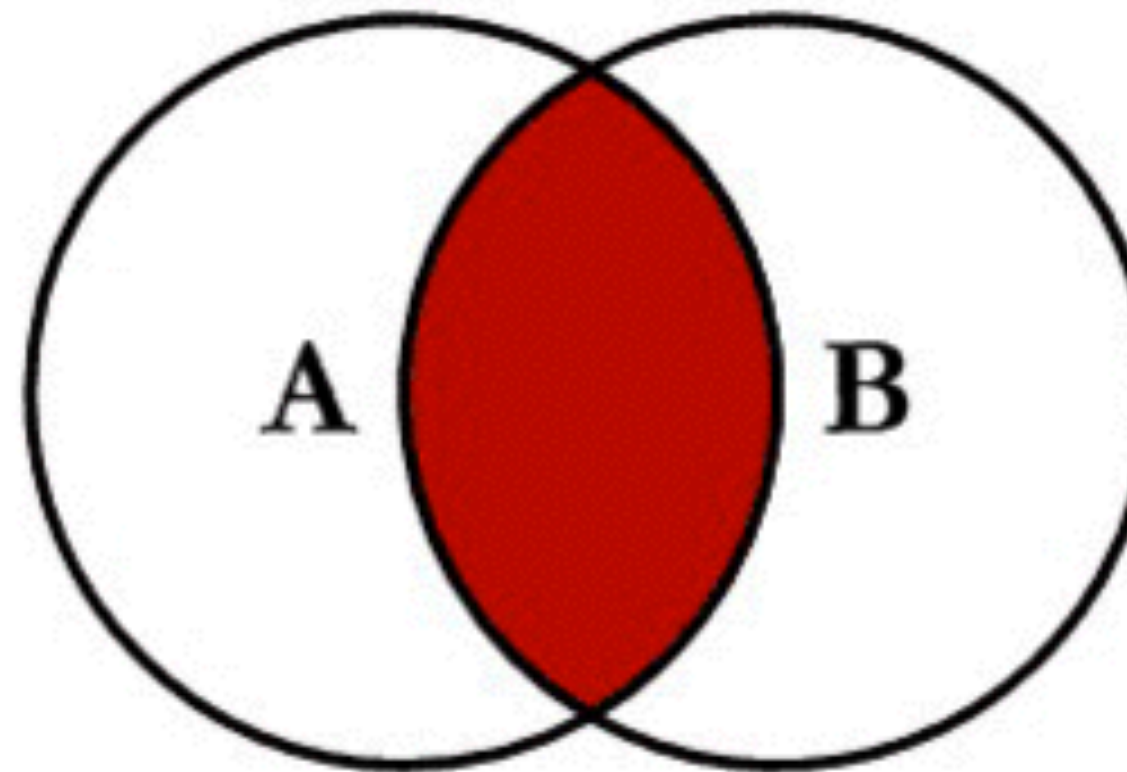
SQL JOINS

SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key

SELECT <select_list>
FROM TableA A
INNER JOIN TableB B
ON A.Key = B.Key

SELECT <select_list>
FROM TableA A
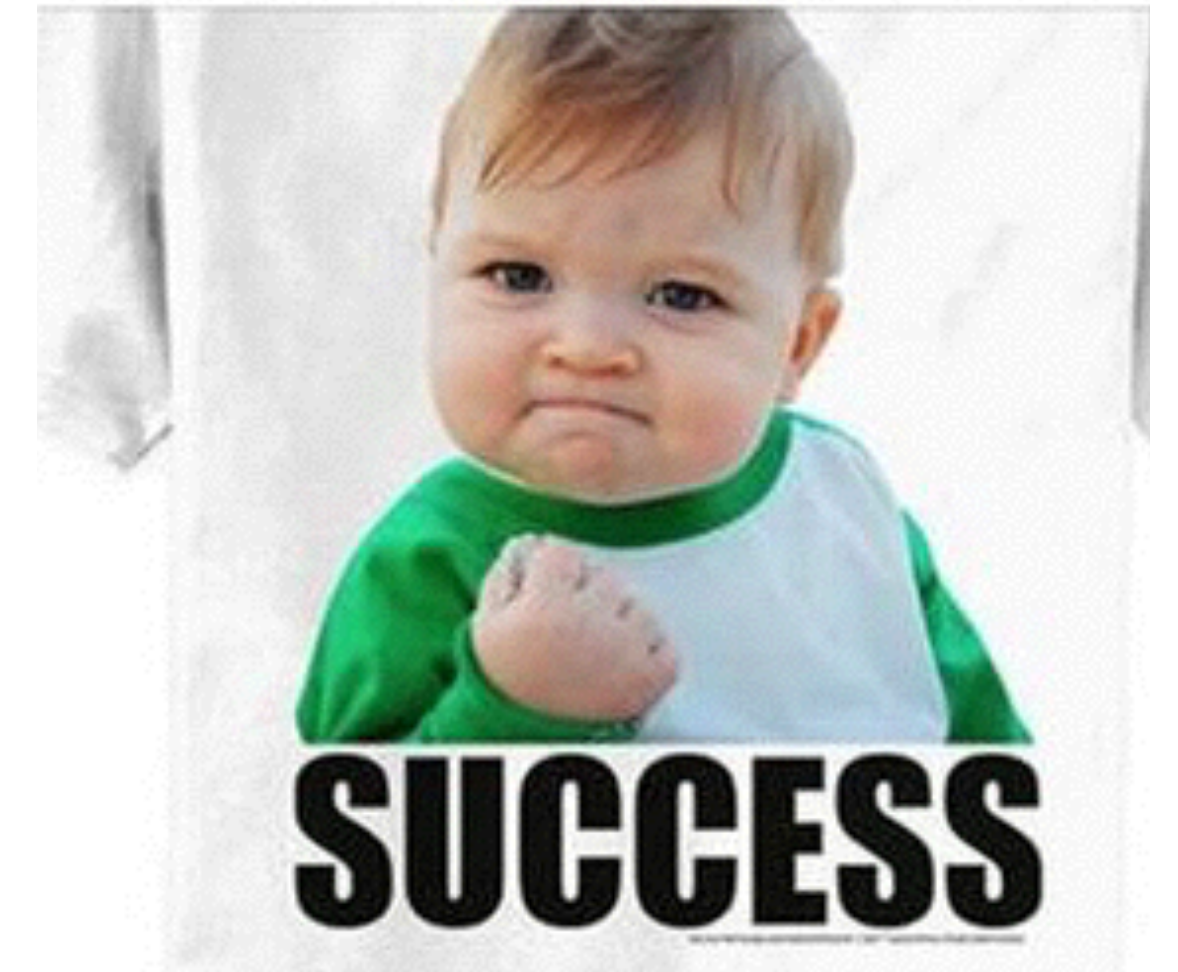RIGHT JOIN TableB B
ON A.Key = B.Key

Podcast of the Week

Shop Talk Show

An internet radio show about the internet starring Dave Rupert and Chris Coyier.

http://shoptalkshow.com/

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Coding Tips

- Create a Real Programming Environment

- Make Programs From Scratch

- Start Small

- Write Lots of Code

- Ask for Help

- Ask for Help the Right Way

http://www.programmingforbeginnersbook.com/blog/when_you_know_the_basics_but_you_still_cant_code/