

Lesson 7: Introduction to Outer Joins

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Audience

- Those who are new to relational DBs and SQL.

Objective

To learn about outer joins. To practice outer joins and other concepts learned so far.

Software & Resources Needed

- Database Server with Interface
 - [MS SQL Server with SQL Server Management Studio](#)
- OR
- [MySQL](#) with MySQL Workbench (part of MySQL install)
- OR
- Online ([sqlfiddle.com](#))
- Data
 - [Test data](#) on Github repo.
- [Github repo](#) for information

Day 7: Outer Joins

Preparation

Watch the Day 7 video:

- <https://youtu.be/M4H6TxGX9MQ>

LEFT and RIGHT OUTER JOINS

Use Left and Right Outer Joins:

- When you are asked to all records from one table, and only matching from another.
- When you are asked to get missing values (where there are no, where there aren't any . . .)

Examples

- Get all teachers and any classes that they teach.
- Get all dogs who have ever been at the shelter and their owners, if adopted.
- Get the dogs at the shelter who haven't been adopted yet.
- List bowling teams who haven't won a tournament.

Try It

Using the SalesOrdersExample DB,
List all products and the dates for any orders.

Try It

Using the EntertainmentAgencyExample DB,
List all entertainers and any engagements they have booked

Try It

Using the EntertainmentAgencyExample DB,

List customers with no bookings.

Try It

Using the database SchoolSchedulingExample,
Display subjects with no faculty defined.

Try It

Using the database `SchoolSchedulingExample`,
Display all faculty and classes they are scheduled to teach.

Try It

Using the database BowlingLeagueExample,
Display matches with no game data.

Try It

Using the database `BowlingLeagueExample`,
Display all tournaments and any matches that have been played.

Try It

Using the RecipesExample Database,
Display all recipe classes and any matching recipes.