Instructor's Summary for
Murach's MySQL (2nd Edition)

This summary introduces you to the components of the instructor's materials that support our text, *Murach's MySQL (2nd Edition),* and helps you get started using them. At the least, we recommend that you read the topics under "What's in the instructor's materials," because they not only describe the components but also our underlying instructional philosophy.

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What's in the student download

To help your students get the most from our book, our website lets them download (1) a SQL script that creates the three databases that are used throughout the book, (2) SQL scripts that contain the SQL statements for the book examples, (3) some additional coding and design examples that they may want to experiment with, and (4) the solutions to the exercises that are at the end of each chapter in the book.

There are two appendixes at the end of the book that show how to install and use these files on Windows and Mac OS X systems. Please note, however, that these items are all included with the instructor's materials, so you don't have to download them separately unless you want to try out the appendix procedures that your students will be using.

The database creation script and all book scripts

Once your students have run the SQL script that creates the databases, they can start experimenting with the sample SQL scripts to see how they work. They can run them as is to get the results shown in the book. But they can also start experimenting with the code to see how various changes affect the results. What's more, they can copy and paste code from these scripts as a starting point for their own SQL script files.

Solutions to the exercises in the book

To help students get over any learning obstacles when they're working on their own, the download also provides the solutions to the chapter exercises in the book. That way, the students can check the solutions to see how something is done whenever they get stuck on an exercise. We think that providing the solutions is the right approach didactically because it helps students learn faster and better.

We realize, however, that providing the solutions means that it's more difficult for an instructor to use the book exercises to test their students. That's why the instructor's materials include a second set of exercises and their solutions that can be used for testing.

What's in the instructor's materials

The instructor's materials for *Murach's MySQL (2ⁿᵈ Edition)* will help any college instructor or corporate trainer run an effective course based on our book. Besides the materials in the student download, this includes instructional objectives, test banks, PowerPoint slides, a set of chapter exercises that aren't in the book, and solutions to those exercises. A summary of these materials follows.

Objectives

Since we believe that instructional objectives should be the start of any educational methodology, we provide a set of objectives for each chapter in the book. We prepared these objectives based on the principles presented by Robert F. Mager in his classic book, *Preparing Instructional Objectives*. As a result, our objectives describe the skills that your trainees or students should be able to do when they complete a chapter, and you should be able to test whether they can do those skills.

Beyond that, we've tried to make sure that each objective describes a skill that a professional programmer should be able to do. This gives our objectives a real-world context that you usually won't find in the objectives for other books. So, if your trainees or students can do what the objectives state when the course is over, you can be sure that they have learned the skills that they will actually need on the job.

If you review the objectives for one of the chapters, you'll see that the first objectives are what we refer to as *applied objectives*. These ask the students to apply what they've learned as they develop SQL scripts. These of course are the critical objectives of a programming course, and they are best tested by having the trainees or students do exercises like the ones that we provide.

After the applied objectives for each chapter, you'll find what we refer to as *knowledge objectives*. These objectives define skills like identifying, describing, and explaining the required concepts, terms, and procedures. These objectives determine whether your students are able to talk intelligently about the topics that are presented. And these objectives can be tested by the questions in our test banks.

To help you get the most from the instructional objectives, we have included them at the start of the PowerPoint slides for each chapter. As we see it, if you can convince your students that they only need to be able to do the skills that are described by the objectives, their study becomes more focused and efficient.

Test banks

To test comprehension, the instructor's materials include one test bank for each chapter in the book. We developed these test banks in ExamView, and we provide them in multiple formats.

Each test bank provides questions that are designed to test the skills that are described by the objectives for that chapter, and each test question is designed to test the skill described by one objective. This keeps the promise to the students that they will only be expected to do the skills that are described by the objectives.

In our test banks, we use only completion and multiple-choice test questions because they have the highest validity. To us, that means that the students or trainees who get the best scores are also the ones with the best knowledge and skills. In contrast, matching and true/false questions have low validity, so we don't use them.

A second set of exercises and solutions

Because we provide the solutions for the book exercises in the student download for this book, the instructor's materials include a second set of exercises and solutions. These exercises are analogous to the book exercises and solutions, but this time the students work with a database for an online music store called My Guitar Shop.

These exercises are provided in a Word document so you can modify them if you want, as well as a PDF document that you can distribute to your students if you don't want to make any modifications. The starting scripts are also in the instructor's materials so you can distribute them to your students. And the solutions are provided so you can demonstrate and review them in class.

Since both the book exercises and the My Guitar Shop exercises force the students to use all of the critical MySQL skills, you can assign either set of exercises to your students. The only significant differences are (1) the students will have the solutions for the book exercises, (2) the My Guitar Shop exercises provide less guidance than the book exercises (which you may prefer), and (3) the My Guitar Shop exercises require you to distribute the exercises and any starting files for the exercises.

Because the book exercises are so easy to use, we suggest that you start by assigning them to your students. Then, if you want to test your students by having them do other exercises, you can use the My Guitar Shop exercises. For some exercises, you may want to distribute the solution for an earlier chapter so the students can start from the previous solution.

PowerPoint slides

Because our book uses the paired-pages method of presentation, all of the critical information is presented in the figures. As a result, the PowerPoint slides present abridged versions of that information. That includes all of the diagrams, screens, tables, and code that you may want to review in class. As a result, these slides make it easy to review any of the skills that your students have difficulty with. In addition, the slides for each chapter start with the instructional objectives so you can review them in class.

If you want to modify any of the PowerPoint slides, you should know that we prepared them by abridging and editing the Word text for each figure and copying it into PowerPoint slides. As a result, you can't use PowerPoint to modify the text in the normal way. Instead, you need to (1) double-click on the text for a slide to open it up in Word, (2) make modifications to the text in Word, and (3) click outside the text to return to PowerPoint. You can also use PowerPoint in the normal way to add slides, delete slides, or add your own presentation notes to our slides.

How to get started

You can get the instructor's materials for our book as a download from our website or on an Instructor's CD. If you get the CD, you can do a preliminary review of our materials by opening and reviewing the files on the CD. But if you decide to adopt the book, you'll want to install the folders and files on your computer as described below.

How to install the folders and files on Windows

From the root of the Instructor's Guide CD or in the folder for the downloaded instructor's materials, double-click on the file named Install.exe and respond to the dialog boxes that follow. This will install the instructor folders and files onto your C drive in a folder structure that starts with:

```
c:\murach\mysql
```

How to install the folders and files on Mac OS X

From the root of the Instructor's CD or from the folder for the downloaded instructor's materials, drag the file named MacInstall.zip to wherever you want to store it on your Mac. Then, double-click on the file and it will unzip the files and folders into a folder structure that starts with:

```
mysql
```

The folders and files that are installed

The table that follows summarizes the folders and files for the instructor's materials after they're installed.

The first six folders…the ones that are shaded…are installed on your students' computers when they download the source code for this book from our website. However, the student download does *not* include the My Guitar Shop exercises and solutions; those are available only to the instructor.

The items in the table that are *not* shaded are available only to instructors. All of these materials are stored in the instructors subfolder of the mysql folder.

	c:\murach\mysql\	Contents
Students	book_scripts	The script files for the SQL examples presented in this book.
	db_setup	The script file for creating and restoring the three databases required by the book examples and exercises. For more information, please refer to appendix A (Windows) or B (Mac OS X) in the book.
	ex_solutions	Subdirectories by chapter that contain the solutions for the book exercises.
	java	The source files for the Java example in chapter 1.
	php	The source files for the PHP example in chapter 1.
	diagrams	The MySQL Workbench files for the diagrams presented in chapter 10.
	c:\murach\mysql\instructors	**Contents**
Instructors	Instructor's summary.pdf	This instructor's summary in PDF format.
	Objectives.docx Objectives.pdf	A document in both Word and PDF formats that contains the instructional objectives for all chapters.
	My Guitar Shop exercises.docx My Guitar Shop exercises.pdf	A document in both Word and PDF formats with additional exercises that are similar to those in the book.
	mgs_ex_starts	The script file for creating the My Guitar Shop database and a few starting script files for some of the exercises.
	mgs_ex_solutions	The solutions for the My Guitar Shop exercises.
	slides	The PowerPoint files that contain the slides for each chapter.
	test_banks	ExamView, RTF, Blackboard, and Respondus folders that contain one test bank for each chapter in the book.

Any comments?

If you have any comments about or suggestions for *Murach's MySQL (2nd Edition)* or any of its student or instructor's materials, we would appreciate hearing from you. We'll also be glad to answer any questions that you have. The easiest way to reach us is to send us an e-mail. And thanks for reviewing our book and course materials.

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