**Competency 2 - Apply SQL commands to retrieve information from a database**

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**Learning Objectives**

Apply SQL commands to retrieve information from a database.

* + Explore the use of the SELECT command in MySQL.
  + Explore the use of the advanced options of the SELECT command.
* Item

**Learning Procedures / Assignments**

**Step 1: Read it**

SQL for MySQL Developers: Read Chapters 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14.

It is a lot of chapters but 11, 12, 13, and 14 are short. Focus on chapters 6 through 10.

Skip chapter 15 and 16 as nice to know. HANDLER statements in Chapter 16 are specific to MySQL.

Skim Chapter 5; focus on the syntax of the various literals. The definitions in the chapter are in Backus–Naur Form which is simply a notation for showing the syntax of a language.

NOTE: In Chapter 7 example 7.1 will not work on the ACC Lab MySQL server as users are only allowed one schema (database). Just create the CITIES table in the default schema (database).

**Step 2: Do it**

When the book has an example for trying out a SQL example, DO IT.

The chapters also have exercises which have answers at the end of each chapter, try these out as time permits.

**Step 3: Practice it**

Homework 2 -  SELECT basics

**Homework 2**

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**Requirements**

* 1. Use the Tennis database.
  2. Execute the following queries and save the results. Also save the command you created to answer the query.
     1. Get the numbers of the teams of which the player with the name Parmenter and initial R is a member; in this example, we assume that no two players have the same name and initials.
     2. For each penalty, find the payment number, the amount, and the number and name of the player who incurred it.
     3. For all players, get the player number and a list of the numbers of teams for which they have ever played.
     4. Get the number of each player who won at least one match.
     5. Get the payment numbers of the penalties incurred by players who were born after 1965.
  3. Submit the saved results file using the below name or paste as a text submission.
  4. Each query is worth 20% of the homework grade.

YourLastName\_hw2.txt

* Assignment

[**Homework 2 Submit Here**](https://acconline.austincc.edu/webapps/assignment/uploadAssignment?content_id=_10070819_1&course_id=_769848_1&group_id=&mode=view)

Submit the saved results file using the below name or paste as a text submission.

YourLastName\_hw2.txt

**Homework 3 -  SELECT advanced**

**Homework 3**

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**Requirements**

* 1. Use the Tennis database.
  2. Execute the following queries and save the results. Also save the command you created to answer the query.
     1. Find the number of penalties and the highest penalty amount.
     2. For each player, get the number and the difference between his or her lowest and highest penalty amounts.
     3. For each team that has played in the first division, give the team number, number of matches, and total number of sets won.
     4. Get the name and initials of each player who has incurred two or more penalties of more than $40.
     5. Get the match numbers of the matches with the two highest numbers and also the two lowest numbers.
  3. Submit the saved results file using the below name or paste as a text submission.
  4. Each query is worth 20% of the homework grade.

YourLastName\_hw3.txt

* Assignment

[**Homework 3 Submit Here**](https://acconline.austincc.edu/webapps/assignment/uploadAssignment?content_id=_10070822_1&course_id=_769848_1&group_id=&mode=view)

Submit the saved results file using the below name or paste as a text submission.

YourLastName\_hw3.txt