

# Using the MySQL Workbench

*For Developers, Data Analysts and Development DBA's*

## Module – Getting Started

# SQL DML – Getting Started Student Workbook

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## Before You Begin

Welcome to the first module. You need to read this section before starting each module. If you are not already doing so you should also be following the “Roadmap” as it will guide you through the course from beginning end.

## Prerequisites

- Install eWampLearn
- Install MySQL Workbench
- Have access to all the course materials

## Purpose of this Lesson

The intent of this lesson is to acclimate to the “MySQL Workbench” software. This document will be short as most of the instruction is covered in the video “MySQL\_Workbench-Basic\_Navigation.mp4”

## Big Picture

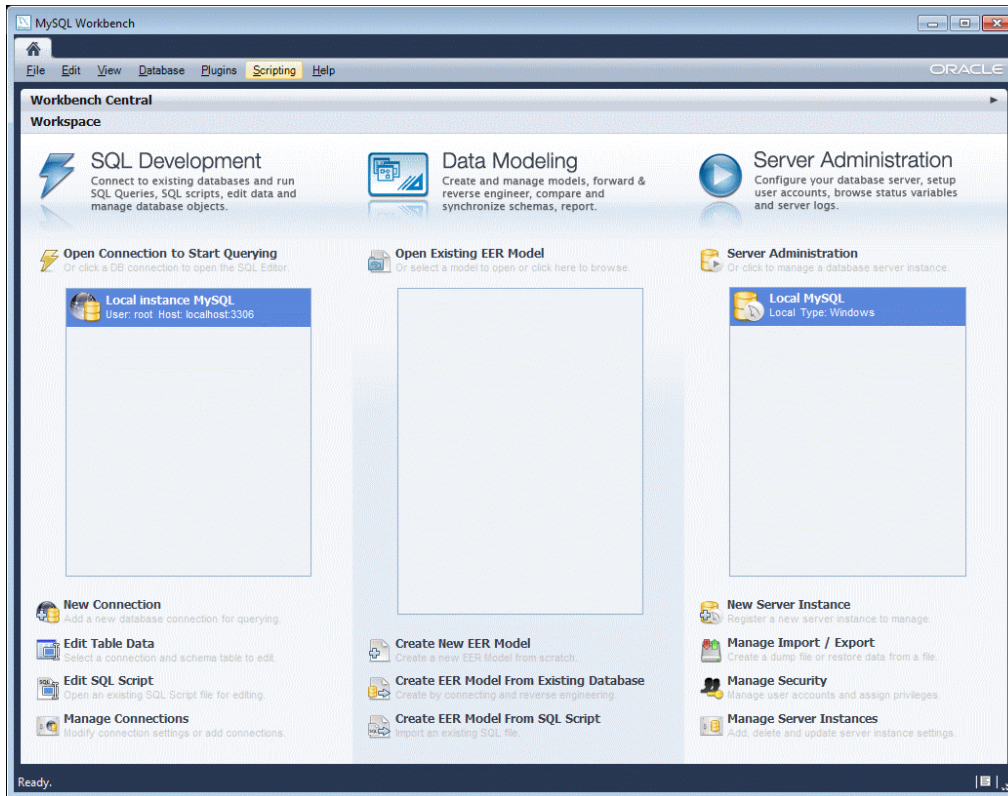
At its core SQL DML (Data Manipulation Language) involves two functions: 1) Reading from the database; 2) Writing to the database. Further, the write function involves three functions: 1) Updating a row of data; 2) Inserting a new row of data; 3) Deleting a row of data.

While facets of this course can be challenging it is good to remember that SQL DML involves these basic functions. These functions are sometimes referred to as CRUD. C=Create, R=Read (The “I” for Insert just did not allow them to create a cute acronym☺), U=Update and D=Delete.

You are now “buzzword compliant.”

## MySQL Workbench – Basic Navigation

Start MySQL Workbench. You will land at the following screen.



We will only be using MySQL Workbench for the purpose of this course. As such, there are many features of this program that will not be covered.

In learning MySQL DML (Data Manipulation Language) you can use the command line or you can use this workbench. The decision on which tool to use was an easy one for me to make. While the command line can be useful for certain operations it just is not a good tool to teach these materials. The Workbench is a stellar tool for learning MySQL DML. And, being free, the price is right. There are also other third party tools available for use with MySQL. I will leave that research up to you.

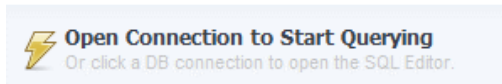
Watch the following video. I will briefly recap what was covered in the video in the rest of this module.



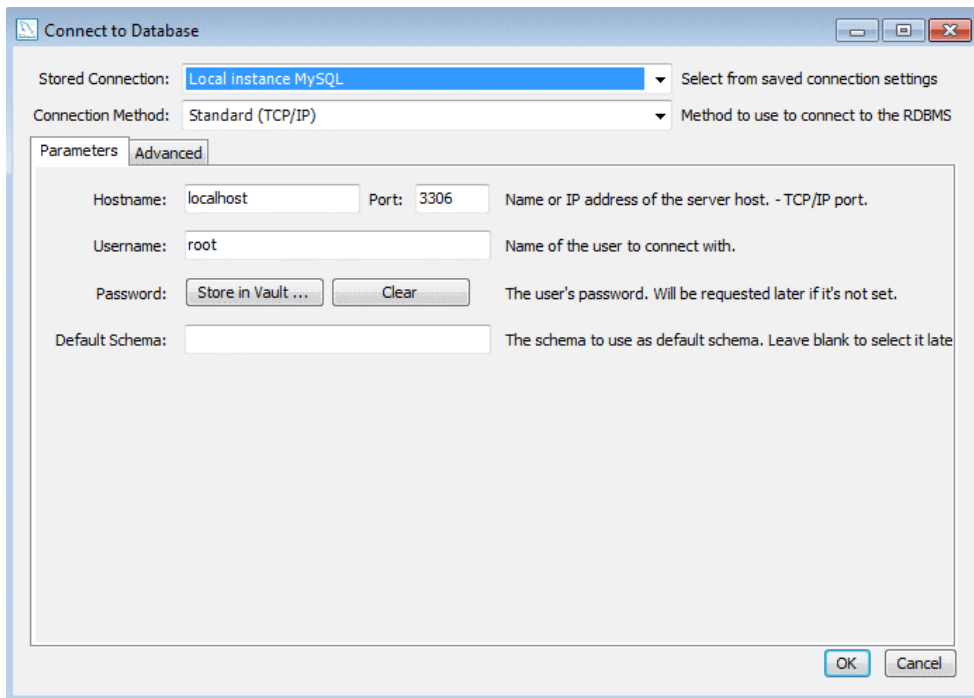
**WATCH VIDEO: [MySQL\\_Workbench-Basic\\_Navigation.mp4](#)**

## Connecting

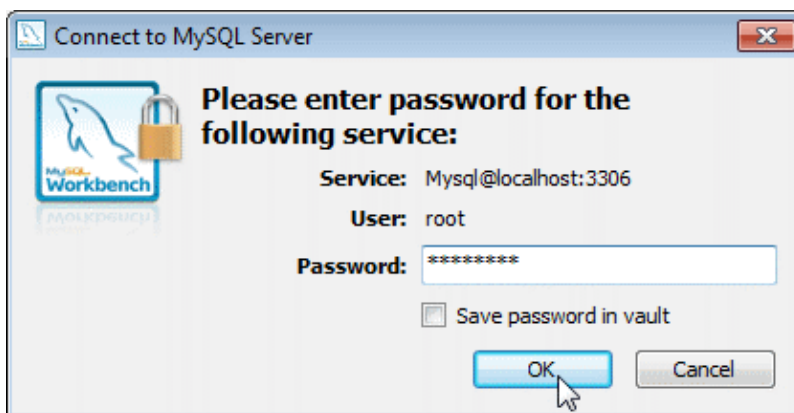
1. Click on “Open Connection to Start Querying.”



2. Check dialog as depicted (default) and click OK.



3. Enter your login password. The default password for the training package is mysqldev. You can click the “Save password in vault” checkbox to avoid having to login.



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## Main Screen

The left pane is the “Object Browser.” This is where you access tables, launch default queries, and view schema information, and browse other SQL objects like views. To the left in the split panel is the query and results pane.

The screenshot displays the MySQL Workbench interface. On the left, the Object Browser shows a tree view of the database schema, including tables like department, facility, findings, hospitalization, medicalconcept, patient, patientaccount, and provider. Below the Object Browser, the Information pane shows details for the selected table, department, including its columns and data types.

The central SQL Editor window shows a query: `SELECT * FROM healthcare.department;`

Below the SQL Editor, the Query Results pane displays the results of the query. The results are shown in a table with columns: department\_pk, id, inactive\_timestamp, type\_cde, and name. The data includes rows for NURSING SERVICES, INPATIENT PHARMACY, OUTPATIENT PHARMACY, PHARMACY SERVICES, DIAGNOSTIC RADIOLOGY, SPEECH THERAPY, IMAGING SERVICES, NUCLEAR MEDICINE, and LABORATORY.

At the bottom, the Output pane shows the execution details of the query, including the time taken (16:53:36) and the number of rows returned (225 row(s) returned).

department_pk	id	inactive_timestamp	type_cde	name
1	NURS	NULL	B	NURSING SERVICES
2	IPP	NULL	B	INPATIENT PHARMACY
3	OPHA	NULL	R	OUTPATIENT PHARMACY
4	PHAR	NULL	R	PHARMACY SERVICES
5	RAD	NULL	B	DIAGNOSTIC RADIOLOGY
6	ST	NULL	R	SPEECH THERAPY
7	IMAGS	NULL	R	IMAGING SERVICES
8	NMED	NULL	R	NUCLEAR MEDICINE
9	LAB	NULL	B	LABORATORY

## Manipulating Frames



The following buttons allow to display and hide the various frames.



### ON YOUR OWN HANDS-ON EXERCISE

Setup your MySQL Workbench to look as follows.

