Welcome XD

Lab 1
(Installation & Walk through)

Lab Agenda

- Notes
- Installation
- Explore MySql Server Workbench
- ERD Example
- Apply on Sql & Intro to constraints
  - DDLs
  - DMLs
- Explore Schema

Notes

- Lab Time
- Contact
- What I am expecting to do & what you are expecting from me & this course
- Project
- Attendance
- Inquiries...?

Installation

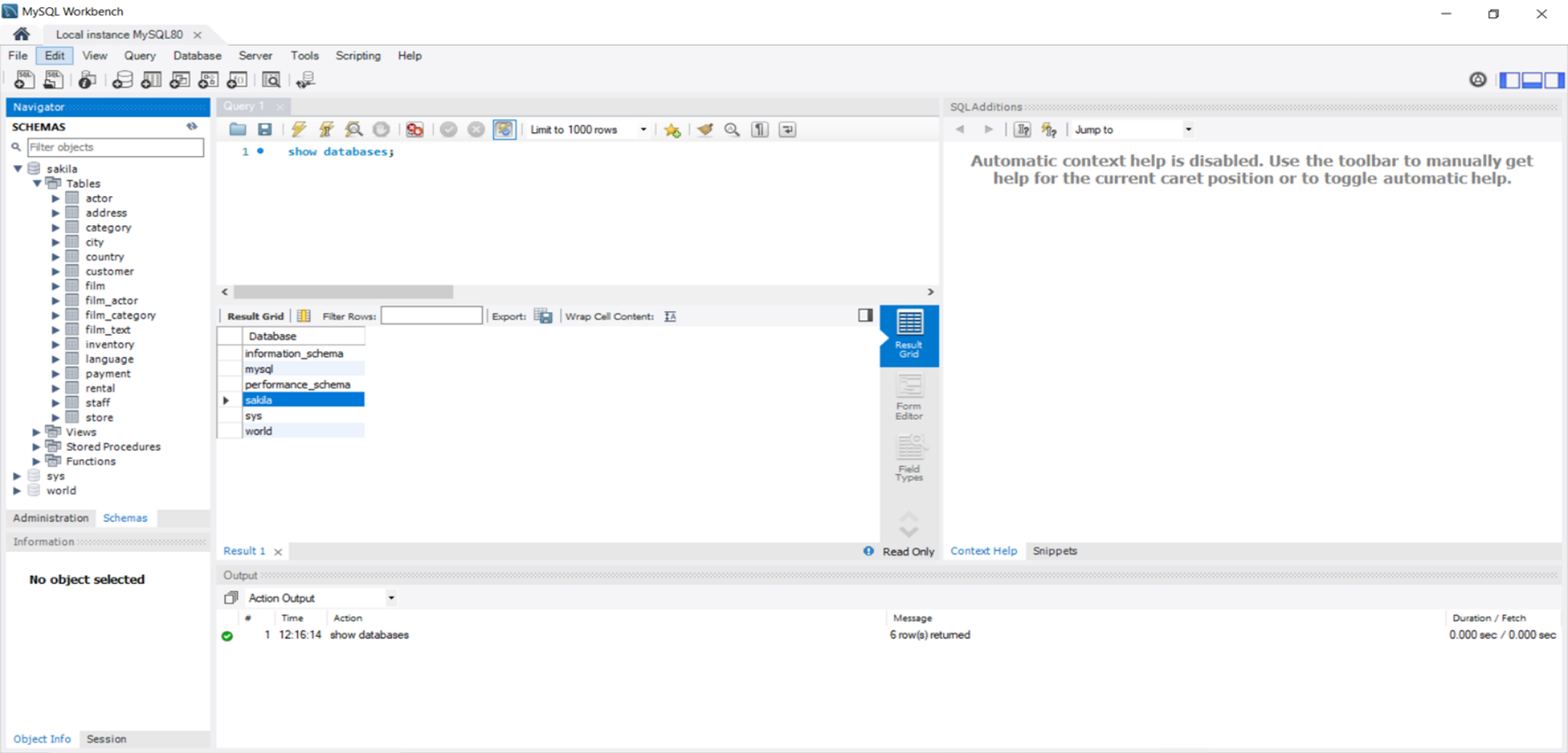
We need to install Mysql Server & Workbench

Links:

- **Windows**
- **Ubuntu**
- **Mac**

ENJOY XD!

Explore MySql Workbench



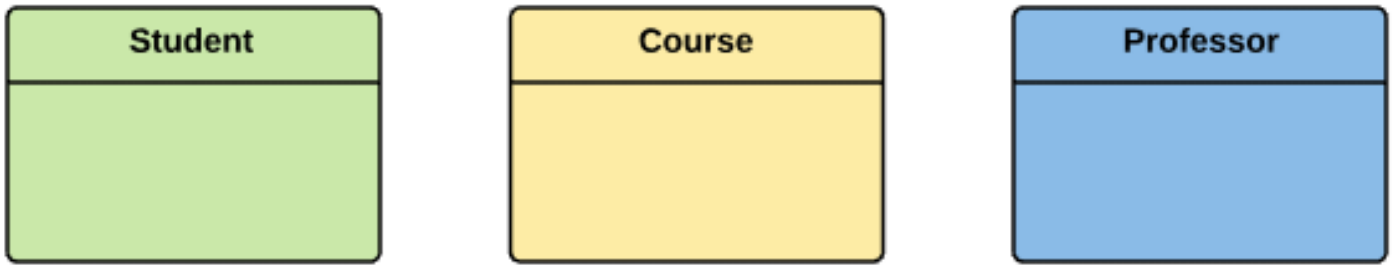
ERD Example

In a university, a Student enrolls in Courses. A student must be assigned to at least one or more Courses. Each course is taught by a single Professor. To maintain instruction quality, a Professor can deliver only one course

- Design the ERD Model .....XD

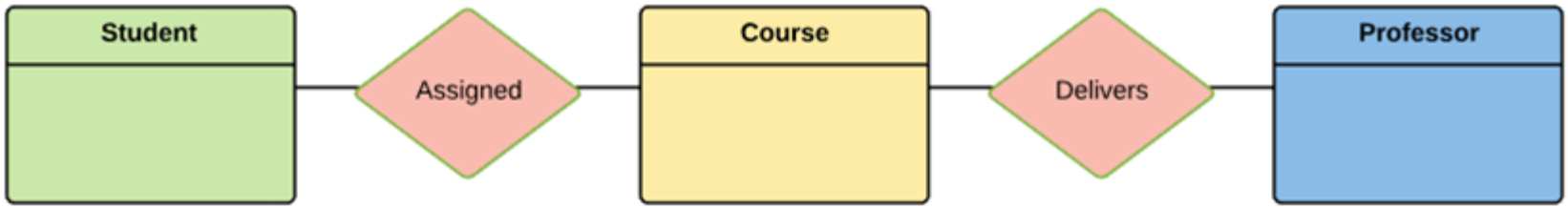
We have three entities

- Student
- Course
- Professor

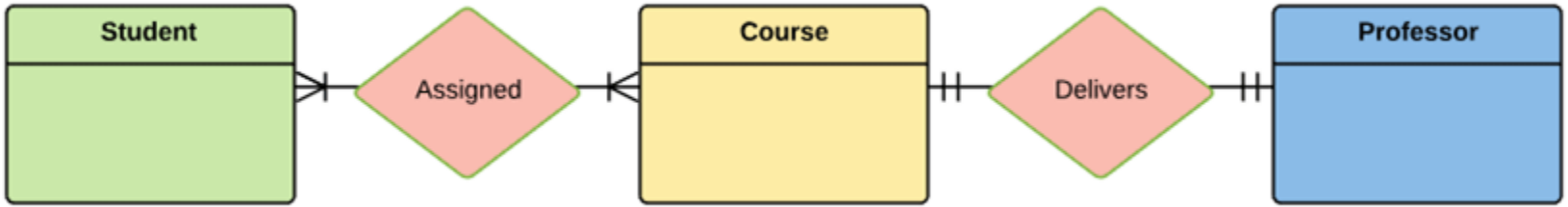


We have the following two relationships

- The student is assigned a course
- Professor delivers a course

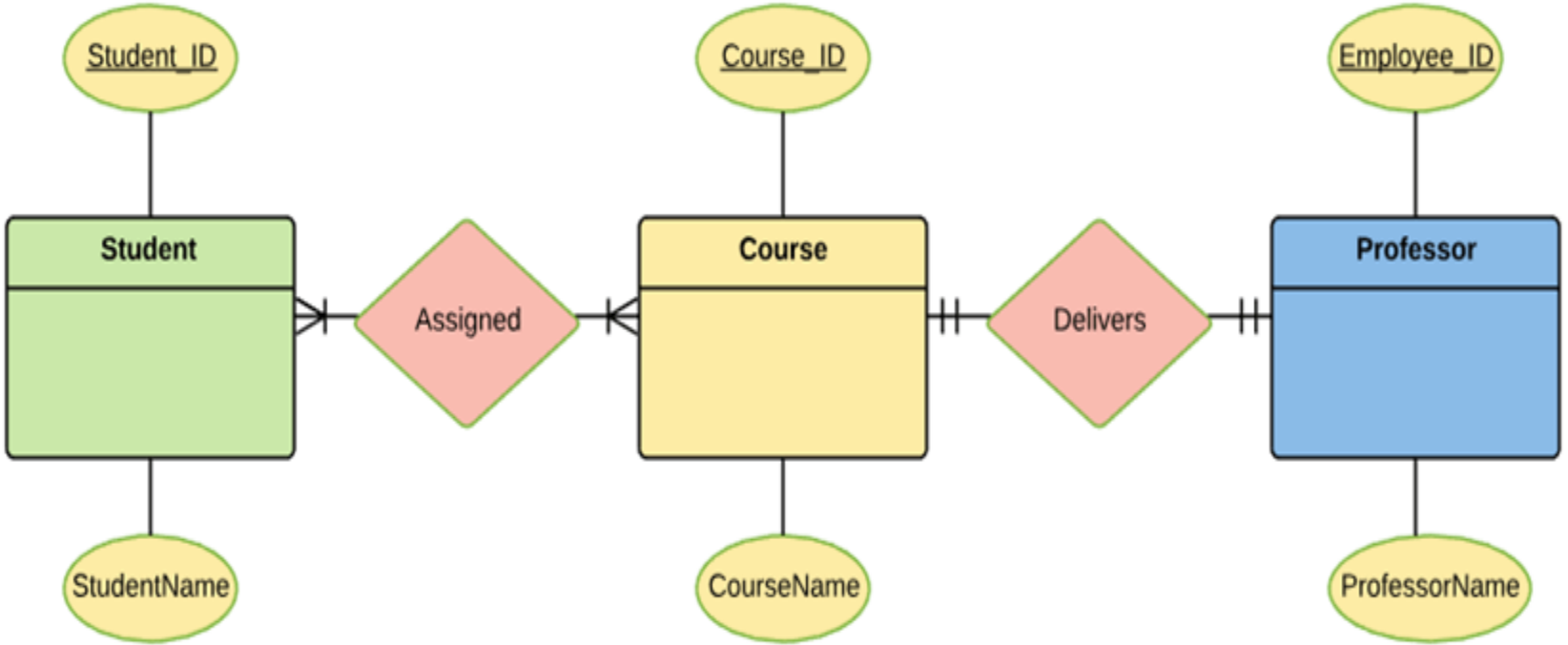


- A student can be assigned multiple courses
- A Course can be taught by only one professor
- A Professor can deliver only one course



- Study the files, forms, reports, data currently maintained by the organization to identify attributes.
- Once, you have a list of Attributes, you need to map them to the identified entities. Once the mapping is done, identify the primary Keys. If a unique key is not readily available, create one.

Entity	Primary Key	Attribute
Student	Student_ID	StudentName
Professor	Employee_ID	ProfessorName
Course	Course_ID	CourseName


Student_ID
Course_ID
Employee_ID
Student
Assigned
Course
Delivers
Professor
StudentName
CourseName
ProfessorName

Apply On SQL & Intro to constraints

Test Yourself

https://www.w3schools.com/sql/trysql.asp?filename=trysql_editor

Explore Schema

Let’s play around with MySql Workbench XD..

Export and Import our Schema

- EXPORT
  - Server > Data Export
  - Expo Schema > ‘classes’ > Dump Structure and Data
  - Export Options > Export to Self-Contained File > Start Export
- IMPORT
  - Create new schema ‘classes2’ & set default
  - Import sql file
  - Execute