Lesson 03: Data Definition

CS 393: Database Systems

# Lesson Overview

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| **Topic** | **Timing** | **Key Ideas** |
| Review | ~10 minutes | Review ERD terms: entity, attribute, data type, relationship, cardinality, participation |
| Data Definition SQL | ~20 minutes | Intro to SQL and reading documentation, VS Code / SQL Workbench intro, CREATE, data types, FK, PK |
| In Class Exercise | ~15 minutes | Implement actor\_movie, employee\_store, use SHOW, DESCRIBE, recreate product design diagram |
| Alter & Drop | ~10 minutes | ALTER, DROP, SHOW DESCRIBE |
| In Class Exercise II | ~20 minutes | Inspect and fix actors database |

## Required Readings

* DS 6.1, 6.2, 7.3

## Supplementary Reading

* [MySQL: How to create a TABLE - YouTube](https://www.youtube.com/watch?v=XfrgCK6BX5w)
* [SQLBolt - Learn SQL - SQL Lesson 16: Creating tables](https://sqlbolt.com/lesson/creating_tables) through lesson 18

# Lesson Objectives & Assessment

* Utilize SQL statements to create a database
* Modify an existing database to match a design diagram

# Lesson Plan

## Timeline

## Comments