

Session Outline

- How to identify the entities for our database
- Introduction to the example database for our course
- Start using MySQL Workbench software

Entities

- The first step to putting together the tables for a database is to identify the entities
- An entity is something we want to store data about
- We'll use an example for this course student enrolment database at a university
- You can also do this with your own database
 - Work project
 - Personal project
 - Anything else
- We're going to use the MySQL Workbench software

What Do We Need To Know?

- Identify the entities what do we need to know about?
- Start with the goal
- Using our example
- "To help a university keep track of the students that have enrolled, what subjects they are taking, and the teachers of those subjects"

Entities

- How do we identify the entities?
- What do you want to store?
- What defines our database
- What objects or things exist in this area?

Look For Nouns

- A good way to identify entities is to look for nouns in our goal statement
- Noun = thing or item
- "To help a university keep track of the students that have enrolled, what subjects they are taking, and the teachers of those subjects"
- Nouns are bolded
- University
- Students
- Subjects
- Teachers

Our Entities

- Use the singular version of the word student instead of students
- Our entities:
- University
- Student
- Subject
- Teacher
- Doesn't need to be a full list now, we can add to it later

MySQL Workbench

Let's add these entities to our MySQL Workbench file

Summary

- Entities are things that we want to store data about
- The first step is to identify our entities
- Looking for nouns in our goal statement is a great place to start
- Use the singular form of the word rather than plural

Action

- Look at your goal statement for your database (which you may have written in an earlier lesson)
- 2. Identify the nouns in this sentence
- 3. Convert them to entities by removing duplicates and renaming them to singular form

What's Next?

Defining the attributes for these entities