



**"SQL projects",  
you say? May I  
know by whom,  
sir?**

**Weekly Assignments and SQL Project**



Book	Author	Themes	Qualities
The Lord Of The Rings: The Fellowship of the Ring	J.R.R. Tolkien	fantasy, heroism, magic, sorcery, evil, adventure, heroism, quest	popular, entertaining, enjoyable, thrilling, adventurous, moral
The Lord Of The Rings: The Two Towers	J.R.R. Tolkien	fantasy, heroism, magic, sorcery, evil, adventure, heroism, quest	popular, entertaining, enjoyable, thrilling, adventurous, moral
The Lord Of The Rings: Return of the King	J.R.R. Tolkien	fantasy, heroism, magic, sorcery, evil, adventure, heroism, quest	popular, entertaining, enjoyable, thrilling, adventurous, moral
Pride And Prejudice	Jane Austen	society, nobility, marriage, courtship, dating, relationships	subtle, intelligent, sharp, respectable, elegant, classy, feminine, sophisticated, refined
To Kill A Mockingbird	Harper Lee	racism, segregation, law, court	intelligent, interesting, sharp, political, compassionate, sympathetic, ethical, sentimental
Nineteen Eighty-Four	George Orwell	totalitarianism, oppression, dystopia, future, socialism	scary, frightening, intelligent, menacing, serious, provocative, profound, political, articulate, far-sighted

**We will work with this file of book data  
(for your assignments and your project)**

# Assignment #1

Fill the following tables with data for **10 books**, chosen by you from the books spreadsheet. Find the **ISBNs** yourself:

1. Create a table that maps from **ISBNs** to **book titles**.
2. Create a table that maps from **ISBNs** to **authors**. Use just one author per row.
3. Create a table that maps from **ISBNs** to **themes**. Use just one theme per row.
4. Create a table that maps from **ISBNs** to **qualities**. Use just one quality per row.

Ensure the **ISBN** is the **primary key** in each of these tables.

## Tips for Assignment week 1

Create the four database tables as outlined in the above specification. Choose **10 books** to populate your tables and provide the corresponding SQL statements to add the data for these 10 books.

Choose at least one book with **multiple authors**.

You will need to use "**surrogate**" keys to handle the fact that some books have more than one author, or more than one theme, or more than one quality.

A **surrogate key** uses an extra discriminating feature (like **an incremental counter**) that is not already in the data. For instance, you might number the authors (this makes a lot of sense) and the themes and the qualities. The combination of ISBN plus this incremental counter can be **a unique key**.