Using the Access Database

INFO/CSE 100, Autumn 2004

Fluency in Information Technology

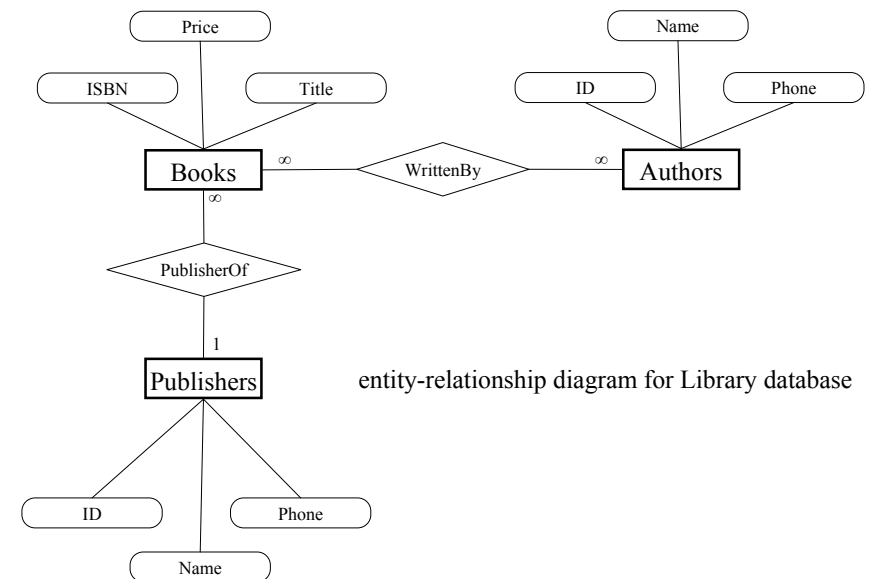http://www.cs.washington.edu/100


Readings and References

- Reading
  - » *Fluency with Information Technology*
    - Chapter 13, Introduction to Database Concepts
- References
  - » *Access Database: Design and Programming*
    - by Steve Roman, published by O'Reilly

Structure

- A database contains one or more *tables*
  - » Tables include *entities* with *attributes*
  - » There are *relationships* defined between the entities in the various tables
  - » Retrieve information from the tables using *queries*
- First, design the database
  - » What are the entities?
  - » What are the attributes of each entity?
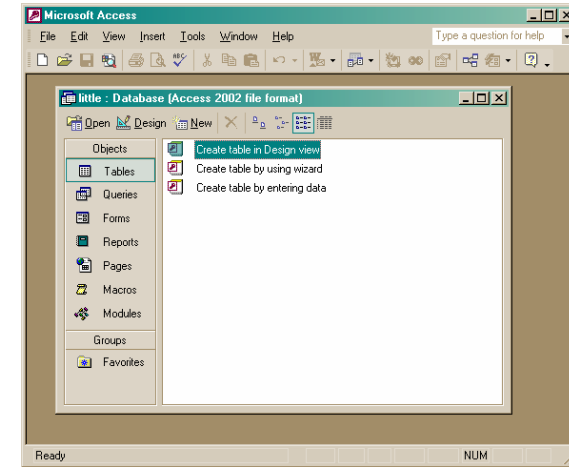 - » What are the relationships between tables?

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entity-relationship diagram for Library database
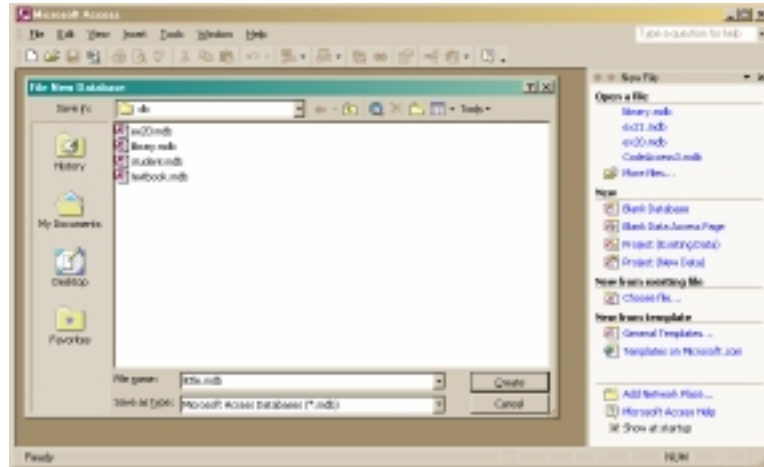
Create a new database

Create a new table in the database

Creating a table in Design view
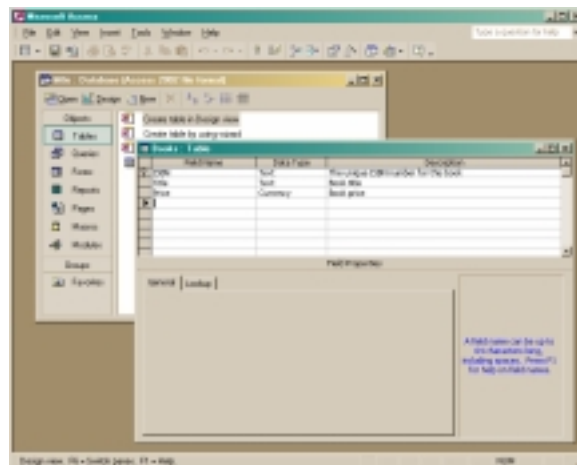
Entering Table Data
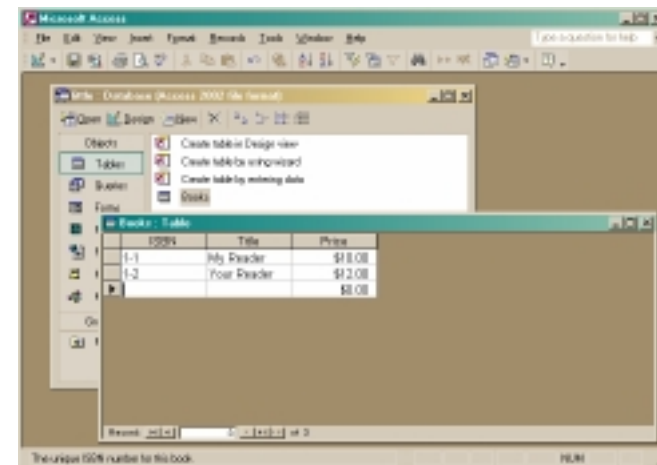
Build another table
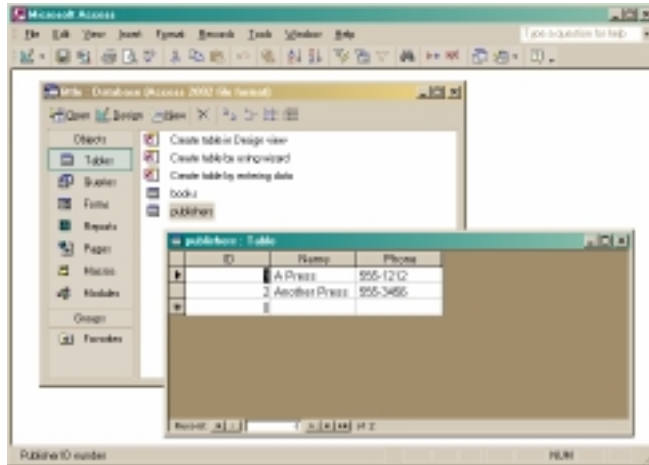
Add publisher ID to books
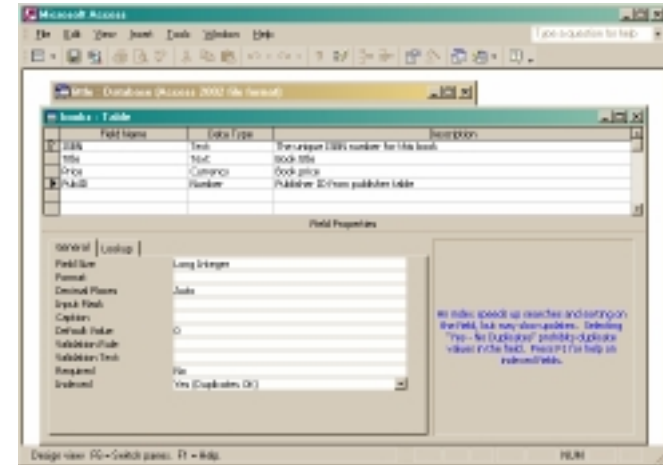
Create the link between the tables

Hey presto, we have a database!
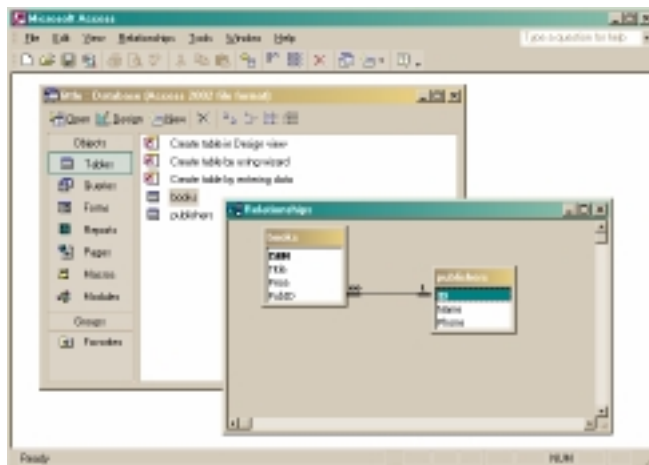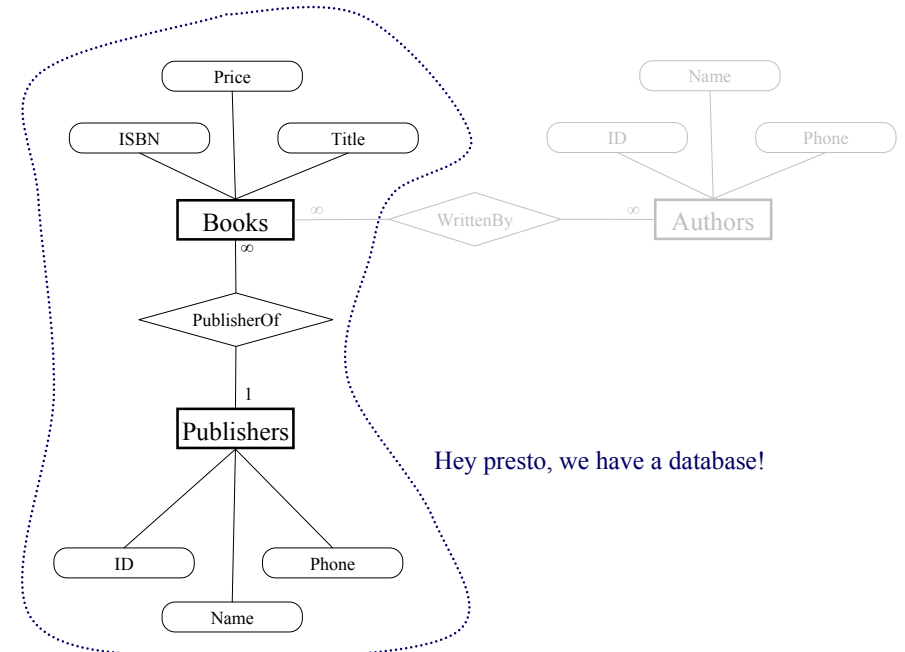
Two tables with a relationship
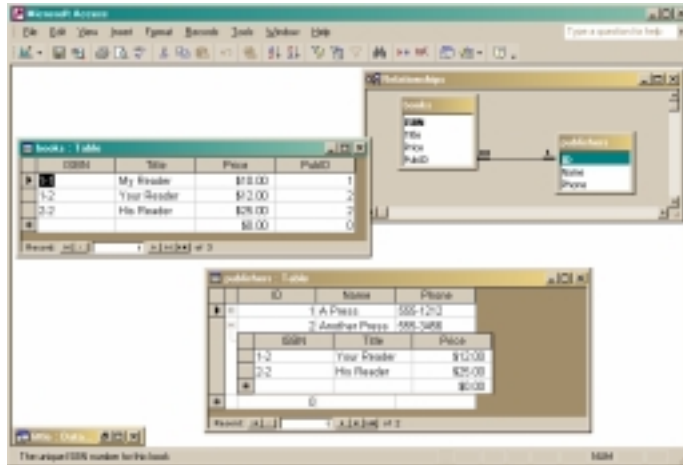
Create a query
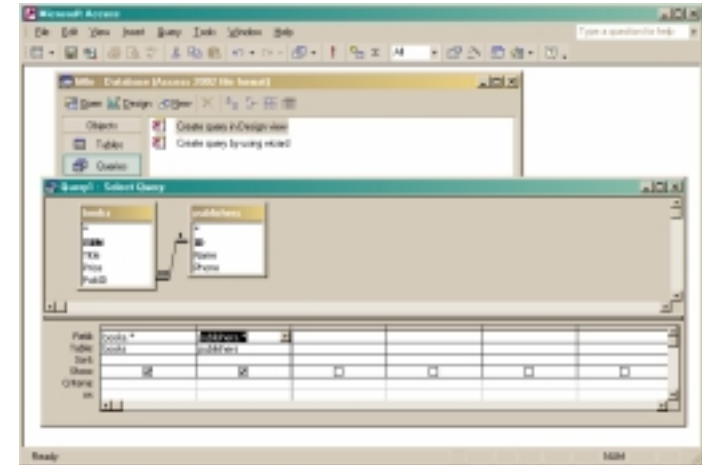
The query produces a new (virtual) table
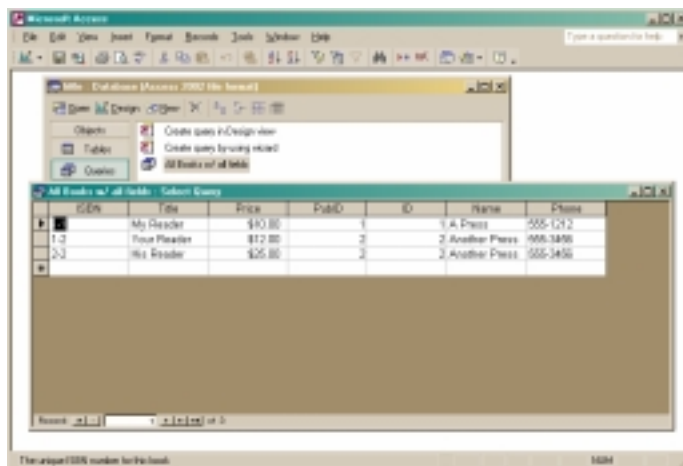
Project (select particular columns)

Select particular rows

SQL behind the scenes