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?

entity-relationship diagram for Library database
Create a new database

Creating a table in Design view

Create a new table in the database

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