What You Need

- DBMS
- SQL (DDL and DML)
  - One of the major topics in this course.
  - Foundation of SQL: Relational Calculus
- Host languages
  - Examples: Java, C/C++, Perl
- Tools for user interface
  - Forms, reports, etc.
- Others
  - E.g., CASE tools for application design
Course DBMS

- Course DBMS
  - Sybase
  - remus.csc.ncsu.edu
  - Information about accessing the course DBMS:
    [http://courses.ncsu.edu/csc742/lec/001/sybase-info/sybase_access.html](http://courses.ncsu.edu/csc742/lec/001/sybase-info/sybase_access.html)

JDBC Basics

- Read the tutorial at the following link.
JDBC Basics (Cont’d)

- Using JDBC
  - Load the driver
  - Connect to the DBMS
  - Use embedded SQL to interact with the DBMS

JDBC Basics (Cont’d)

- Basic JDBC Objects
  - Connection
    - Abstract represent the connection to the DBMS
  - Statement
    - Can be used to execute queries and update the DB.
  - ResultSet
    - Used to hold the result of queries.
JDBC Basics (Cont’d)

- Specific information you need to know
  - Driver for the course DBMS:
    jdbc:sybase:Tds:remus.csc.ncsu.edu:4000

Development Environments

- Forte for Java
  - Community Edition: freely available
  - On eos machines:
    - add forte
    - forte4j

- Emacs + JDEE
  - JDEE: Java Development Environment for Emacs
  - http://jdee.sunsite.dk/
Project Description

http://courses.ncsu.edu/csc742/lec/001/project.html