



Database System Design & Management
21:198:431 (3 credits)

COURSE DESCRIPTION:

This course provides a comprehensive introduction to the language of relational databases: Structured Query Language (SQL). Topics covered include: Entity-Relationship modeling, the Relational Model, the SQL language: data retrieval statements, data manipulation and data definition statements.

PREREQUISITE: 21:198:102 (Computer & Programming II)

TEXTBOOK:

Kroenke, Auer, Vandenberg & Yoder Database Concepts, 9th Edition, Pearson
Isbn10: 0135188148

DATABASE USED FOR THE COURSE:

We will use the MySQL database for the course. For your PCs, you can download the latest version from www.mysql.com and install it.

DEPARTMENT WEB SITE: <http://www.ncas.rutgers.edu/math>

THIS COURSE COVERS THE FOLLOWING TOPICS:

Chapter 2: The Relational Model
Chapter 3: Structured Query Language
Chapter 4: Data Modeling and the Entity-Relationship Model
Chapter 5: Database Design
Chapter 6: Database Administration
Online Extension: Working with MySQL

PROJECT:

Write a proposal and design document for project:

- describe what you want to do

Dive into research, then implementation and testing:

- specify how you want to implement your project

At end of term, give a presentation/demo of your work:

- try to include a simple demo of these tests in your final presentation

*Please note this is a tentative syllabus and changes may be made to it prior to the class.

Department of Mathematics & Computer Science
Smith Hall 216, 101 Warren Street, Newark, New Jersey 07102
Phone: (973) 353-1004 Fax: (973) 353-5270