

EXAM 2 (FINAL) STUDY GUIDE

Objectives of the first part of BCIS 4660

- Understand the design of Relational Databases
- Understand how to use SQL and be able to form Select, Modify, Delete, and Make Table queries.
- Understand the design issues in Data Warehousing and the components of the Star schema.
- Become familiar with some major and user-friendly DBMS software, such as Access.

Objectives of the second part of BCIS 4660

- Understand the core concepts of Data Mining and Data Visualization.
- Study design aspects of a Budgeting and Spending Data Mart, as an introduction to Star schemas in accounting and financial planning.
- Study design aspects of a Financial Reporting Data Mart, such as Star schemas for Balance Sheets, Income Statements, and Cash Flow Statements.
- Become familiar with the Enterprise Model approach to Data Warehouse design.
- Study ways to justify a data warehouse project from the business point-of-view.
- Discuss current and future trends in Data Warehousing and Data Mining.

Format and time constraints for Exam 2

- 65 multiple-choice questions, covering theory, concepts, SQL syntax, relational algebra, star schemas, data transformation procedures, DW Enterprise Modeling, and the material of Homework assignments 1-9. Closed books and notes. Final exam time is 110 minutes. 130 points.

Study Material

- The Final Exam is **COMPREHENSIVE!**
- **Textbook:** Pratt & Adamski Chapters 1, 2, 3, 4, 5, 6. Marakas Chapters 1, 2, 3, 6, 7. Adamson & Venerable chapters 1, 2, 8, 9 (use the posted lecture slides for Adamson study material)
- **Homework problems:** HW1, HW2, HW3, HW4, HW5, HW6, HW7, HW8, HW9
- **Practice Exam:** This will be distributed in class and contains 22 m/c questions.

Good Luck!!! ☺