



CHAPTER 12

LECTURE OUTLINE

Computer Science Illuminated, Seventh Edition

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Information Systems

12.1 Managing Information

12.2 Spreadsheets

Spreadsheet Formulas

Circular References

Spreadsheet Analysis

12.3 Database Management Systems

The Relational Model

Relationships

Structured Query Language

Database Design

12.4 E-Commerce

12.5 Big Data

Summary

Ethical Issues: Politics and the Internet

Key Terms

Exercises

Thought Questions