Computer Engineering Department
Bilkent University

CS351: Data Organization and Management
Final Exam Study Guide
December 31, 2009

A. Time and Place Information

1. Exam Date: Wednesday, January 6, 2010; Time: 12:15 – 14:15

2. Place: Last names of the students taking the exam in that room

   EB101: Ağaoğlu - Başeşme
   EB102: Battal - Energin
   EB103: Eraslan - Karakuzu
   EB104: Kartal - Öz
   EB201: Özçelik - Şahin
   EB202: Şener - Zorer

B. Exam Structure

1. About seven questions

2. Multi section per question

3. By definition the exam is comprehensive (see the syllabus); however, the topics covered after the midterm will be emphasized.

C. Topics to be tested (an incomplete list)

1. Topics of the midterm exam.

2. B and B+ trees.

3. Secondary key indexes and secondary key-based query processing and indexing concepts (inverted files, dense index, clustering index, etc.). K-d trees and Grid files are not included.

4. Database concepts and definitions.

5. E-R model: drawing E-R diagram from description of entities and relationships among them, conversion from E-R model to relational model or vice versa, integrity constraints (key constraint, total participation, referential integrity, etc.).

6. Relational algebra.