

Purdue University
Computer Science Department
CS 348: Information Systems (Spring 2008)
Prof: Bharat Bhargava

Homework # 4

1. Give an overview of the implementation issues involved in the Ingres database system. (see paper on web site)
2. What do we mean by lossless decomposition?
3. What do we mean by dependency preservation?
4. What do we mean by safety of expressions in relational query languages? You may give an example using tuple calculus.
5. What is the advantage of domain calculus language such as QBE?
6. Do question 5.7 (a) on page 196 of book.
7. Give examples of specialization and generalization (see chapter 6 pages 227-230)