

Homework Assignment #1 – Chapter 4

1. Discuss each of the following concepts in the context of the relational data model:

relation

attribute

domain

tuple

intension and extension

degree and cardinality

2. Describe the differences between a relation and a relation schema. What is a relational database schema?
3. Discuss the differences between the candidate keys and the primary key of a relation. Explain what is meant by a foreign key. How do foreign keys of relations relate to candidate keys? Give examples to illustrate your answer.
4. What is a view? Discuss the difference between a view and a base relation.