

Chapter 2a

1. What is the domain of an attribute? What does it mean for the attribute to be atomic?
2. Why do we need a null value for databases?
3. What is a relation? A relation instance? Tuples? Why does ordering for tuples not matter?
4. What is the difference between a superkey, a candidate key, a primary key, and a foreign key?

5. What is relational algebra? Why is it important to the database world?

6. Describe what each of these operations does.

a. Select

b. Project

c. Union

d. Set difference

e. Cartesian product

f. Natural join