Cesar Santiago

ID: 970403634

COP4710 Database Systems

Pf. J. Teichert

Chapter 2

Checkpoint 2.1

1) A field that has unique values is that which all of the value of each record is not the same to any other record.

2) For order purposes, it is only possible to organize a list that has all different values.

3) A file has many different fields and the key field is that which determines how the file will be organized, this is because a designer can only assume one field at a time will be organized a certain way.

Checkpoint2.3

1) The three main relational data models are the Hierarchical, the Network and the Relational models of database handling.

2) The Relational Model is the one most often used today, that is because of it’s lack of drawbacks compared to the other relational models. The main drawback being the inefficiency in comparing two sets of data with one another, the link pointer in data ended up being too complicated and bugs would often rise up.

3) Some of the disadvantages to the Hierarchical Model are that child data do not correlate to one another and only to the parent, and that one child may not have many parents, only parents may have children. It was a one to many, or one to one relationship. Which prevented many complex data algorithms to be used.

4) The disadvantages to the Network model were similar to the hierarchical with the difference on complexity, it became to complicated for the machine to store pointers to many different types of data, with many different correlations, thus bugs in data would happen.