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Database Management

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Lab 1 Short Essays

2. Throughout the world, companies keep their information stored in many ways. A popular way of storing information is in the way of databases. A large company such as Amazon uses these databases to store their information. Certain information that is stored into these databases are the customer's names, information, payment information, and the merchandise than can be sold. The data gets stored into the databases which is later on organized and it is easier to access later on. For example, you can just put insert a whole bunch of numbers into the database. Those numbers are the data in there, but when you assign those numbers into prices and assign them into items becomes information because those number have meaning when they are assigned to an item. The differences between data and information is that data is meaningless. Data can have anything without any significance. I can just say 5 and it can mean anything. Once I assign 5 to something i.e. oranges it has significance. Five and five oranges are two complete different things now because 5 oranges have a meaning instead of 5. The value that information is that it has a meaning and it is more specific than just having data.

3. The hierarchical prerelational data model is a diagram in which the data is organized into a ranking type structure. All the data is linked to each other according to previous data and goes down from there. It is very organized because the diagram just goes down like a family tree. Each piece of data is linked to each other. On the other hand, the network data model is different from the hierarchical data model. The network data model is a one to many relation diagram where it shows the relationship between objects. It is more flexible because it is not one to one so one object can have different links with other objects. Both of these models come close to the relation model because they can be used to store data. The hierarchical data model can be used as storing data from general information down to specific information like it goes down by ranking. The network data model can be use as well to store data in a more efficient way because, all the relationships are flexible so it may be faster to narrow your results when looking for data in these models. XML is a good method to store data because it is similar to the hierarchical data model where it can be a well, organized method of storing data