

ITC 6000 Class 2 - Assignment

1. List at least four advantages of indexing. Mention some indexing tips that would be of particular help to a database designer. Also, discuss indexing practices that can adversely affect the performance of a database. In your discussion, include information on how a designer should decide on how many indexes to provide per table.
2. List at least four basic rules for identifying primary keys in a relational database. Mention how you would go about identifying the foreign keys in your design. Briefly discuss foreign key ownership and how to indicate a foreign key in your relational database model.
3. Describe at least two examples of common errors in entity relationship modeling. If possible, provide a graphical illustration of the problems and solutions. List some questions the designer should consider before designing the models so that these errors can be avoided.
4. Using library resources or the Internet, locate an entity relationship diagram (ERD) utility that can be used to create graphic database designs. Provide a general description about the company that produces the tool. Mention the ER modeling techniques offered by the tool and the database products that it supports. Discuss other features that might make this an attractive product to a database designer and explain why.