

For each question:

a) draw E-R diagram, b) make the final tables from the E-R diagram.

1. Create a database for a hospital to manage doctors (name, speciality, telephone number) and patients (first name, last name, date of birth, telephone number), and date and hour of each visit.
2. Clients order commands. We wish to store the date of each command as well as the name and telephone number of the client.
3. Marriage records in a town hall. It should include first names, last names, date of birth.
4. Create a database to store all routes (with their quality) as well as a list of cities. Also store pairs of cities and the routes which connect them and their distance along this route.
5. An association manages several sports centers. Each sport center has some sports available. Each client can subscribe to several sports centers (each subscription has a different cost), and play each sport at a center which offers that sport.
6. Design a database for cars. There are many car companies, each of which produces different models. Each model has different options. Each car has a unique id called VIN. There are customers, as well as dealers which sell cars. Each car was either sold by, or is still available at, a dealer.