DBMS and Organization of Data

Directions: For each of the problems below, your job is to plan a relational database. Data is messy and organizing it is an artform that takes practice. Some of these problems are purposefully vague. State your assumptions about data or requirements where appropriate. At a minimum, you should include a listing of data which satisfies the data requirements of the problem in your opinion, sketches of tables and listing of data in each, and links clearly indicating the relationships between tables.

Problems:
1. You in the business of organizing tours and travel for wealthy clients to France. You are compiling research on lodging, restaurants, and interesting things to do in cities. You are particularly interested in being able to generate a listing of lodging, restaurants, and interesting things to do by city so that you can give this information to clients. Since your clients are very wealthy and your run a high-end boutique service, you need to also keep track of the contact information of the person who is your contact at these establishments as they provide your clients with extra perks and services.

2. You are the regional sales manager for the XYZ Gadgets, Inc. corporation. You need to prepare annual reports which you then pass on to the national sales manager. You need to be able to give him:
   • A report which includes a list of salespeople and their territory, sales, and number of clients.
   • A listing of all clients in your region
   • A listing of territories and the total number of salespeople and clients associated with each territory.
   • A listing of the total sales per month.