Ass 1- B: Draw E-R diagram for different Organizations

1. Construct an E-R diagram for a car-insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents.

2. Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.

3. Design an E-R diagram for keeping track of the exploits of your favourite sports team. You should store the matches played, the scores in each match, the players in each match and individual player statistics for each match. Summary statistics should be modelled as derived attributes. Also track the same information for all teams in a league.

4. Assume there is a library system with the following properties. The library contains one orseveral copies of the same book. Every copy of a book has a copy number and is located at aspecific location in a shelf. A copy is identified by the copy number and the ISBN number ofthe book. Every book has a unique ISBN, a publication year, a title, an author, and a numberof pages. Books are published by publishers. A publisher has a name as well as a location.Within the library system, books are assigned to one or several categories. A category can bea subcategory of exactly one other category. A category has a name and no further properties.Each reader needs to provide his/her family name, his/her first name, his/her city, and his/herdate of birth to register at the library. Each reader gets a unique reader number. Readers borrowcopies of books. Upon borrowing the return date is stored. Create an ER diagram of this librarysystem.