

Entity-Relationship Examples

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Football Club

A football **club** has a name and a ground and is made up of players. A **player** can play for only one club and a **manager**, represented by his name, manages a club. A footballer has a registration number, name, and age. A club manager also buys players. Each club plays against each other club in the league and matches have a date, venue, and score.

Bus Company

A Bus Company owns a number of busses. Each **bus** is allocated to a particular **route**, although some routes may have several busses. Each route passes through a number of **towns**. One or more **drivers** are allocated to each **stage** of a route, which corresponds to a journey through some or all of the towns on a route. Some of the towns have a **garage** where busses are kept and each of the busses are identified by the registration number and can carry different numbers of passengers, since the vehicles vary in size and can be single or double-decked. Each route is identified by a route number and information is available on the average number of passengers carried per day for each route. Drivers have an employee number, name, address, and sometimes a telephone number.