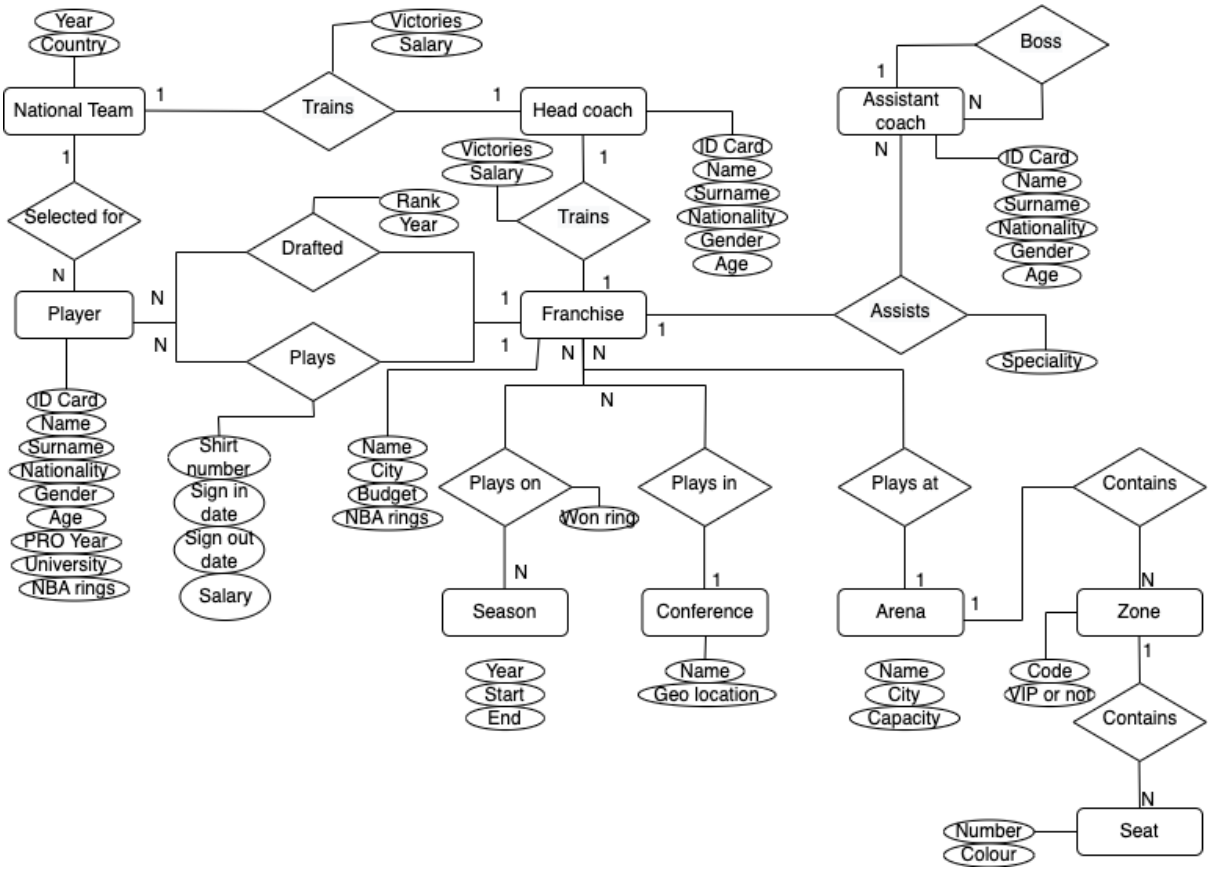
Guillem Escriba Molto (NIA: 242123)
Clàudia Quera Madrenas (NIA: 231197)

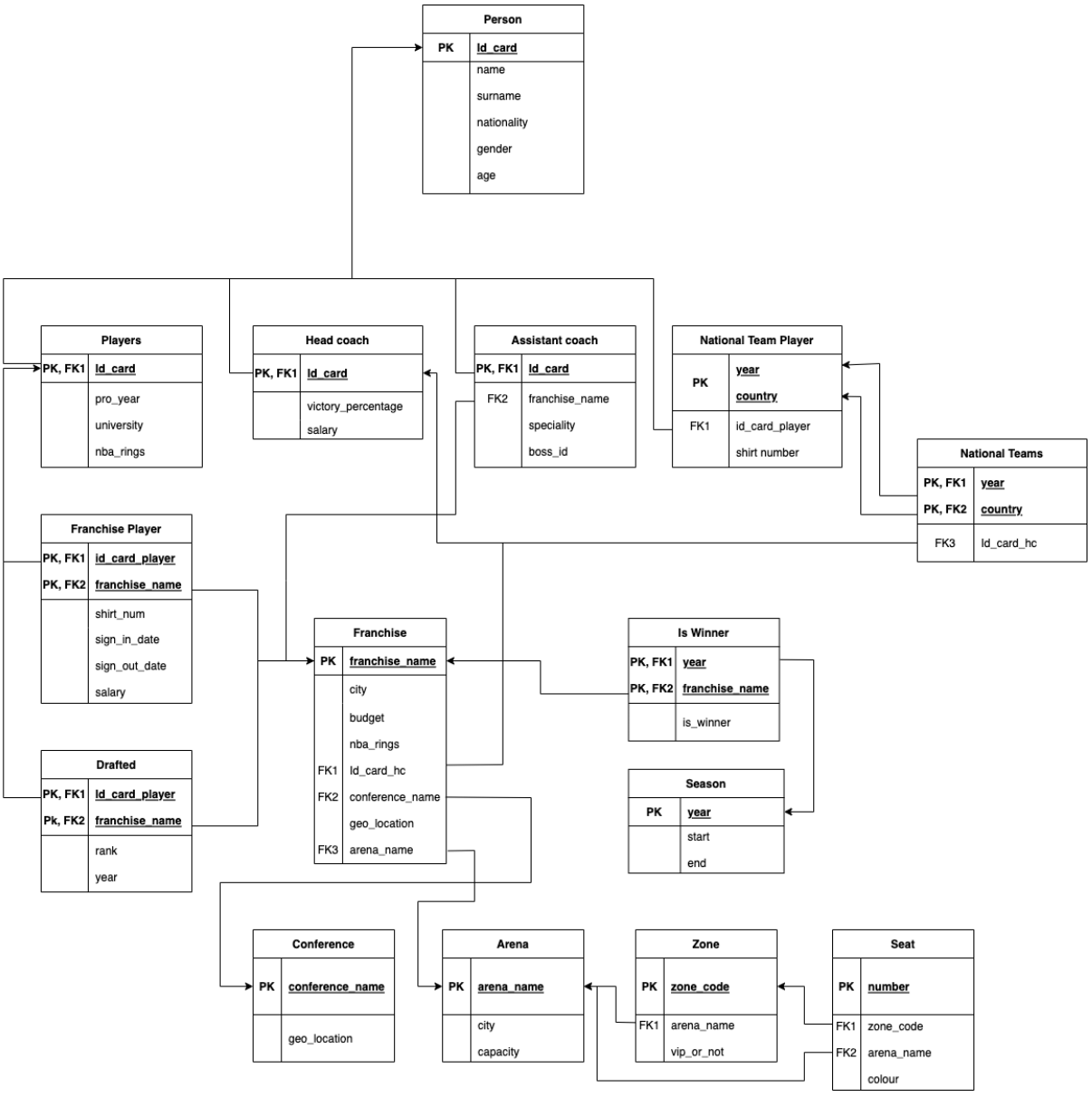
Here, you can see the Conceptual Model (Entity - Relation) derived from the previous scenario:



In this model we have related the main entities (rectangular shape) of our database between them and which will be transformed into tables of data in our database. Also, each entity has a set of attributes (oval shape) which are its descriptive properties and will be each one of the columns of the tables of the database.To form relationships between the entities, we have used relations (diamond shape) which can be of different type and degree (in this case they are either 1:N or 1:1).

Guillem Escriba Molto (NIA: 242123)
Clàudia Quera Madrenas (NIA: 231197)

From the previous Conceptual Model, we can get the following Relational-Model with tables:



This relational model represents the database as a collection of relations which are nothing but tables of values. Every row in the table represents a collection of related data values. These rows in the table denote a real-world entity or relationship. The columns of the tables can be either PK, FK or none. A primary key is used to ensure that data in the specific column is unique whilst the foreign keys are columns or groups of columns that provide a link between data in two tables.