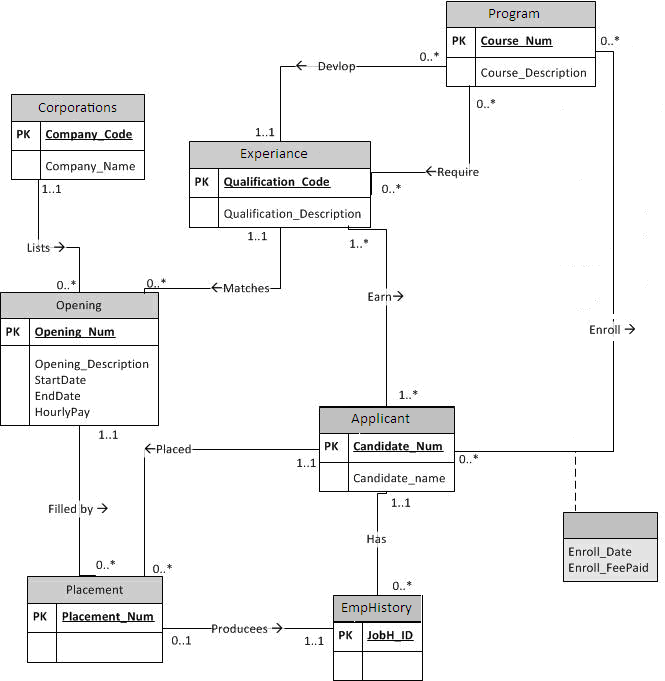
**During peak periods companies goes to Gulf Recruitment Agency (GRA) and look for temporary workers to work in the in companies. GRA’s manager gives you the following description of the business:**

* GRA has a file of applicants who are willing to work.
* If the applicant has worked before, that applicant has a specific employment history. Each time he/she works, one additional employment history record is created.
* Each applicant has several experiences. Each experience could be earned by more than one applicant.
* GRA offers programs to help applicants improve their qualifications (experiences).
* Every program develops one specific experience; however, GRA does not offer a program for every experience. Some experiences have multiple programs that develop it.
* Some programs cover advanced topics that require specific experiences as prerequisites. Some programs cover basic topics that do not require any prerequisite experiences. A program can have several prerequisites. A qualification (experience) can be a prerequisite for more than one program.
* Applicants can pay a fee to attend a Program. A program can accommodate several applicants, although new programs will not have any applicants registered at first.
* GRA also has a list of corporations that request temporaries.
* Each time a corporation requests a temporary employee, GRA makes an entry in the Openings folder. That folder contains an opening number, a corporation name, required experiences, a starting date, an anticipated ending date, and hourly pay.
* Each opening requires only one specific or main experience.
* When an applicant matches the qualification (experience), the job is assigned, and an entry is made in the Placement Record folder. That folder contains an opening number, an applicant number, the total hours worked, etc. In addition, an entry is made in the employment history for the applicant.
* An opening can be filled by many applicants, and an applicant can fill many openings.
* GRA uses special codes to describe an applicant’s experience s for an opening.
* *Hint: the underline words are the important entities in for the Gulf Recruitment Agency (GRA). However, you are free to add/remove any entity you think it is needed, also State any assumptions necessary to support your design. Try to make your diagram clean and clear.*

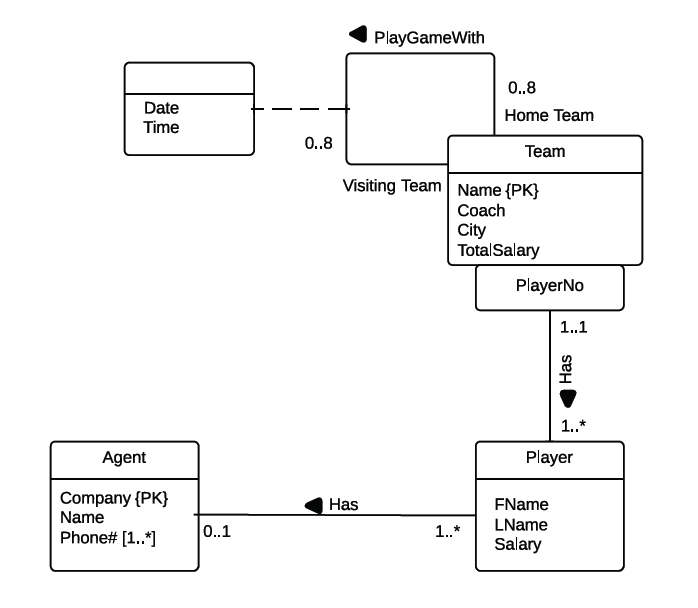


The NBL (National Basketball League) database stores information about single NBL season, which will record data about teams, players and games. For each team they record their name (which are unique), the name of the team coach, the home city and their total player salary.

For players they record the player's first and last name, their uniform number, and their salary. A player can only play for one team, and no one team has two uniform numbers that are the same although two or more teams may have the same uniform number. Players must play for one (and only one) team and teams must have players.

Information is also to be recorded about players' agents. The name of agents, their legally registered and unique company names, and phone numbers are to be recorded. A player can have only one agent (but does not have to have an agent). The same agent may represent many players. An agent has to represent at least one player.

Finally they record information about games. A game is played between two teams. In each game there is one home team and one visiting team. For each game the date and the time is also to be recorded. Each team will play exactly eight games as the home team and exactly eight games as the visiting team.



A trucking company called "Trex" is responsible for picking up shipments from warehouses of a retail chain called "Grand Place" and delivering the shipments to individual retail store locations of "Grand Place". A truck may carry several shipments during a single trip, which is identified by a Trip# and date , and delivers those shipments to multiple stores . Each shipment is identified by Trip# &Shipment# and includes data on shipment volume, weight, etc. Each truck is identified by a Truck# and has certain capacities for both the volumes they can hold and the weights they can carry. A database is designed to be used by "Trex" to keep track of truck usage and deliveries from warehouses and to help in scheduling trucks to provide timely deliveries to the stores.

Assumptions:

* One trip can carry many shipments from different warehouses. In other word, we need to know the trip picking up from which warehouses.
* Each shipment is delivered to one store only.
* Each warehouse is situated at a unique location.
* Each store is situated at a unique location.