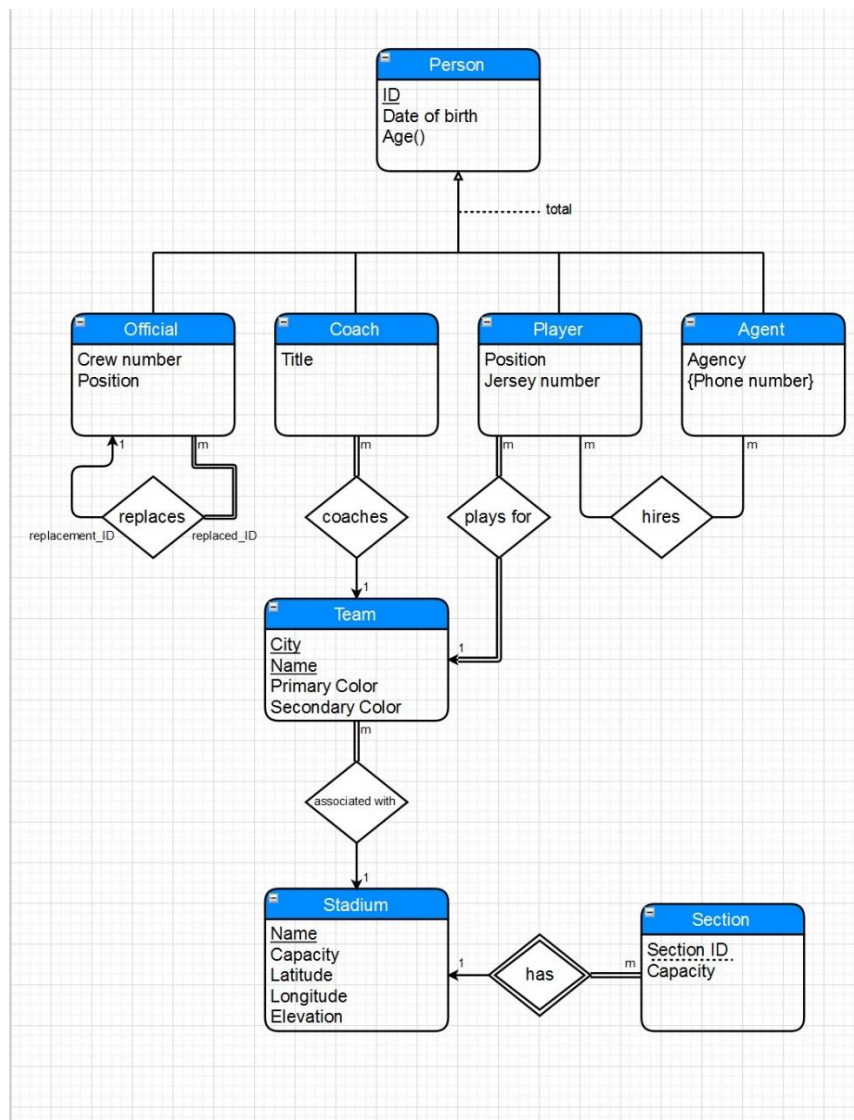


COURSE: CS/DSA-4513 - DATABASE MANAGEMENT  
SECTION: 001  
SEMESTER: FALL 2016  
INSTRUCTOR: DR. LE GRUENWALD  
GROUP PROJECT NUMBER: 2  
GROUP MEMBERS: ALEX SALAZAR-ALMARAZ, DANNY TA, FREDERICK SMELTZER, JORDAN NGUYEN  
SCORE:

1.

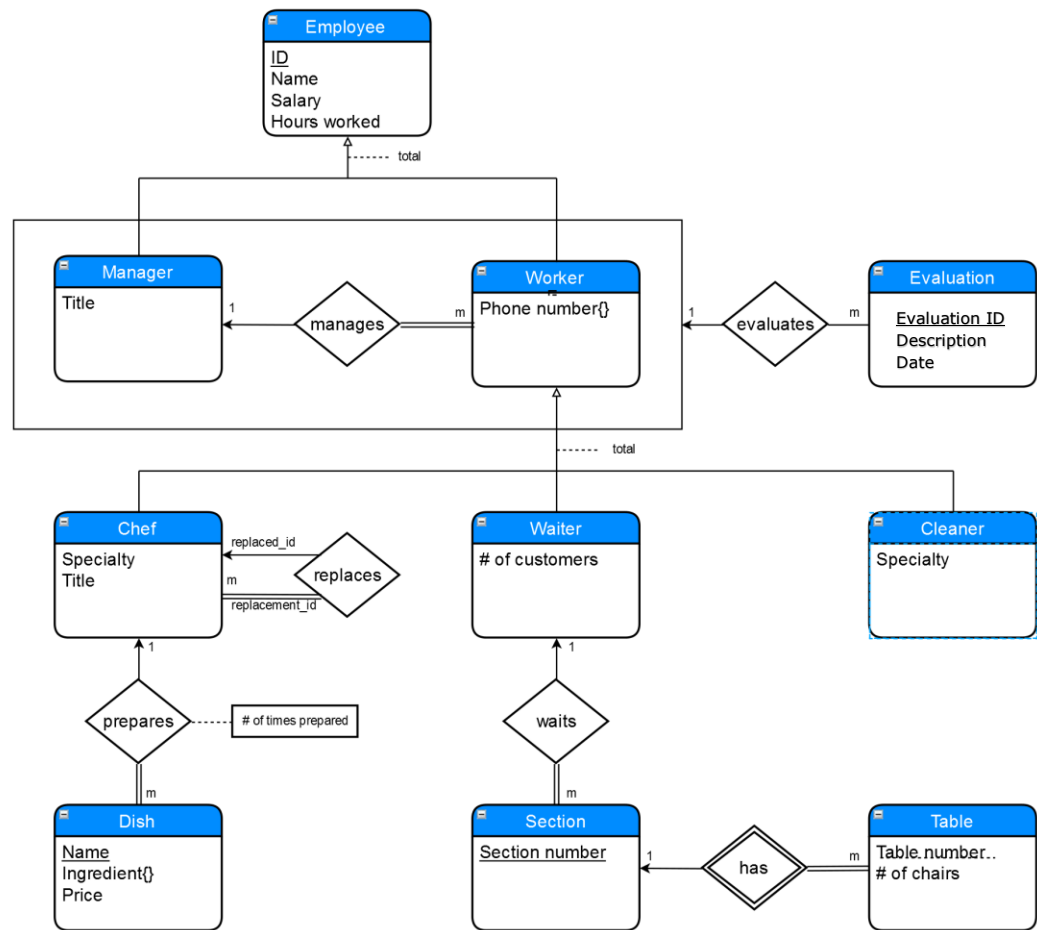


b) Add an attribute to the relationship recording the reason of replacement. This attribute should be attached to the "replaces" relationship with a dotted line.

c) Create an aggregate relationship that contains the team-stadium relationship; create a "contract" entity with the given attributes (contract ID, start date, end date, value) with the primary key being contract ID; the relationship is "agreed upon" and is one-to-one.

d) No, not enough information is available for us to formally define public and website as a strong entity set.

2.



This database relates several categories and groups of employees for a local restaurant. Each employee is uniquely identified by an ID number and has a name, salary, and amount of hours worked.

Every employee in the database is either a manager or a worker. A worker can either be a chef, a waiter, or a cleaner.

A worker can only be managed by a single manager, while managers can oversee multiple workers. Additionally, managers may be able to evaluate workers as much as they need to. An evaluation will have a unique evaluation ID, description, and date it was written.

A manager has a title. A worker has a phone number or multiple phone numbers.

A chef has a title (such as sus-chef, head chef, etc.) and a specialty (like soups, salads, noodles, etc.) and must have one and only one associated chef to replace him/her if they are not able to work.

A dish must be prepared by one specific chef (unless they are temporarily replaced). Each name is uniquely identified by its name and has ingredients and a price. Additionally, the number of times a dish has been prepared by a chef is stored in the database.

A waiter has the number of customers that they served in total. Additionally, each waiter waits on at least one section, and every section must have one waiter. Each section has a unique section number. Furthermore, each section has a number of tables. Every table must belong to a section and has the number of chairs at the table, and a table number unique only to that section.

A cleaner has a specialty (such as bathroom cleaner, dish washer, or floor cleaner).