



## Group Project 2

Course: CS/DSA 4513 - DATABASE MANAGEMENT

Section: 001

Semester: Fall 2016

Instructor: Dr. Le Gruenwald

Group Project Number: 16

Group Members:

*Jeremiah McKinley*

*Seyedsaeid Hosseinipoor*

*Alexander Rodriguez Castillo*

Score:

62  
62.5

Why does this hard copy only  
contain problem 1? Follow  
the submission instructions...

## 1) Venue ER Diagram

a) Write a description for the attached ER diagram.

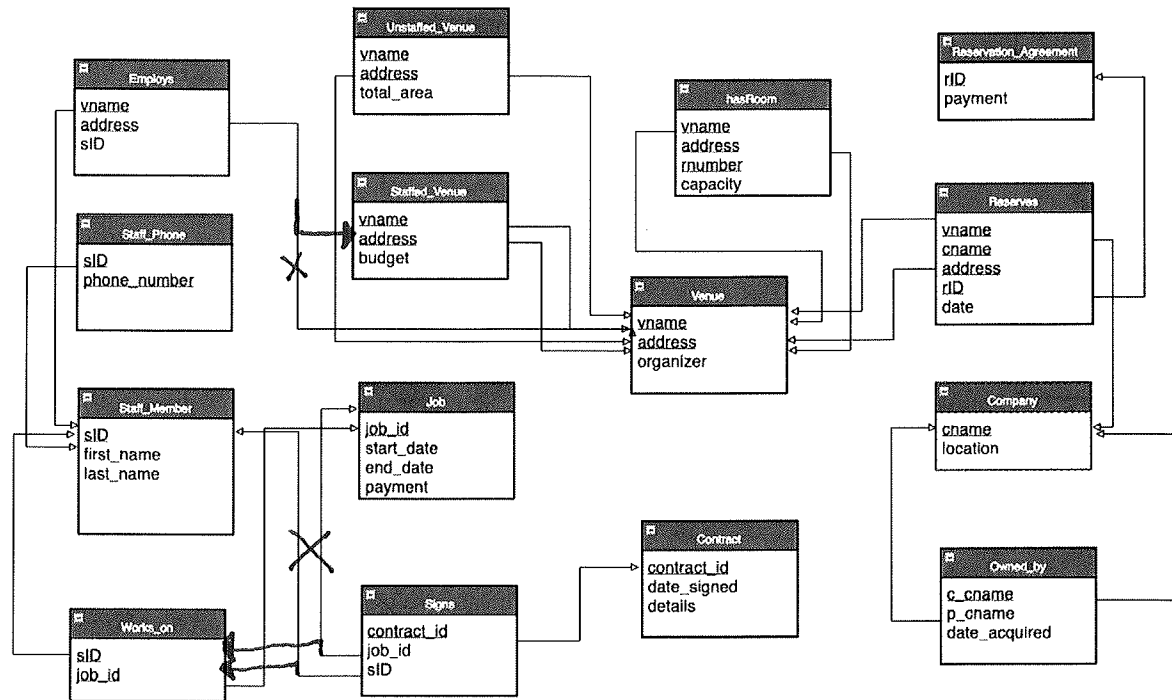
- 1) Venue is a place where events are held. It can be identified by its name and address. It also has an organizer. There are also multiple rooms in each venue that have a number and capacity. Different venues may have the same room number and capacity, but they can be identified by their room number along with the venue name and address
- 2) Staff Venues employ Staff Members. These members have a unique id. They also have a name separated into first and last names, and phone number(s). Every staff member is employed by a specific staff venue.
- 3) Staff members may work at zero or more jobs, and one job may have none or several staff members. These jobs have a unique job id. They also have a start date, an end date, and a payment amount.
- 4) Sometimes when a staff member works on a job there is a contract signed.. These contracts have a unique contract id. They also have a date signed and details. Every contract belongs to one staff member/job relationship.
- 5) Venues are reserved by companies for a specific date (which needs to be recorded). For each of these reservations, one or more reservation agreements are signed. A venue and a company can sign several reservation agreements. The reservation agreements have a unique id and a payment amount. The company has a unique name and a location.
- 6) Each company can be owned by a single parent company. The owned company will be called a child company. The date they are acquired is recorded from this relation.

b) Convert the attached ER diagram to a Relational Database.

- ✓. Venue(vname, address, organizer)
- ✓. Unstaffed\_Venue(vname, address, total\_area, organizer)
- ✓. Staffed\_Venue(vname, address, budget, organizer)
- ✓. Reservation\_Agreement(rid, payment)
- ✓. Company(cname, location)
- ✓. Reserves(vname, address, id, cname, date)
- ✓. Staff\_Member(sid, ~~name~~, first\_name, last\_name)
- ✓. Staff\_Phone(sid, phone number)
- ✓. Job(job id, start\_date, end\_date, payment)
- ✓. Contract(contract id, date\_signed, details)
- ✓. Room(name, address, number, capacity)
- ✓. OwnedBy(c cname, p\_name, date\_acquired)
- ✓. Works\_on(id, job id)
- ✓. Signs(contract id, sid, job id)
- X. Employs(vname, address, sid) → wrong primary key - .5

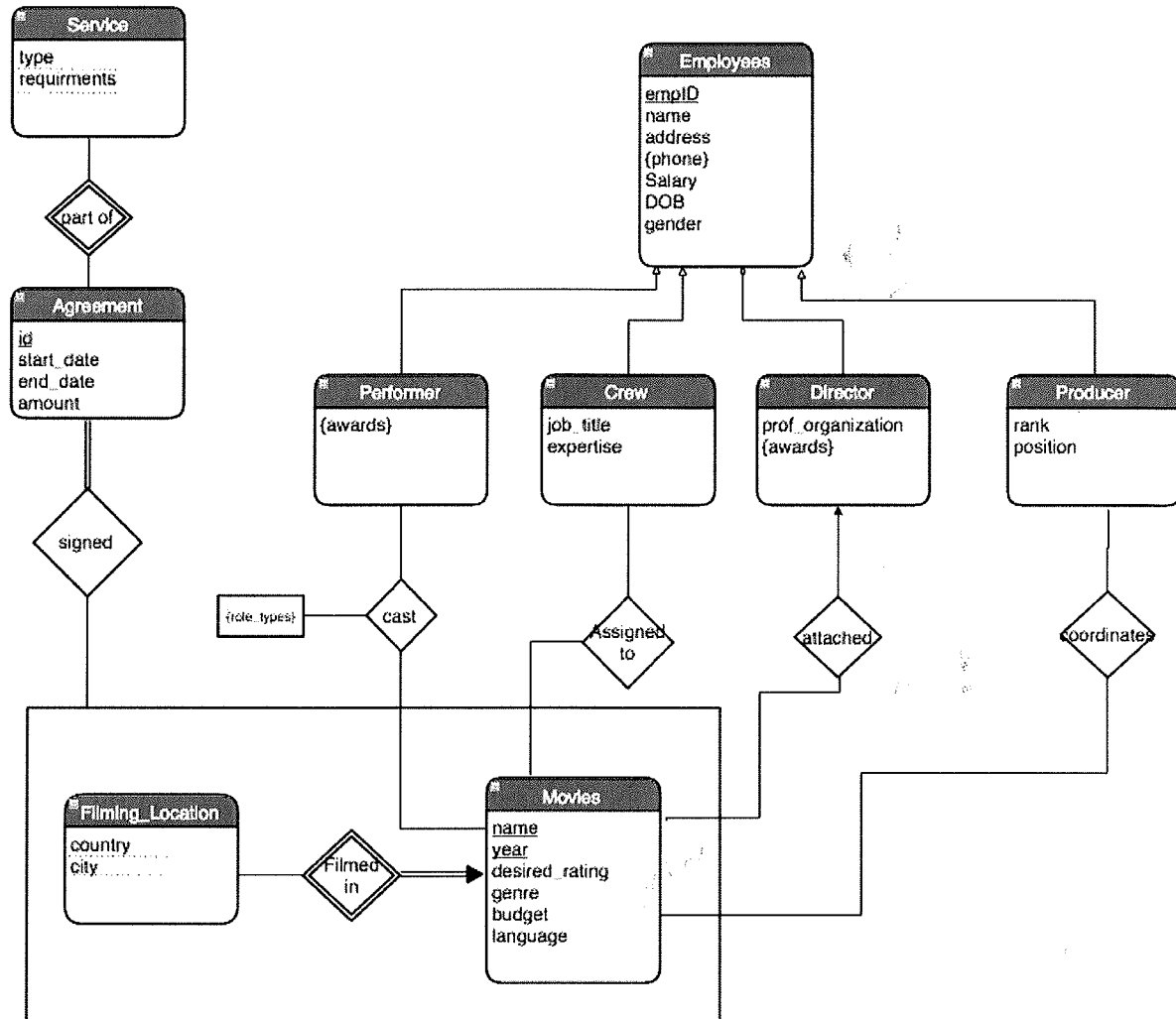
6.5/7

c) Draw a Schema Diagram for the relational database.



5/5

## 3) Revised Question 3 ER Diagram



2a) 4/4    2b) 3.5/3.5    2c) 20/20

3a) 2/2    3b) 2/2    3c) 2/2    3d) 12/12