

## **Group Project 2**

**Course:** CS/DSA 4513 - DATABASE MANAGEMENT

**Section:** 001

**Semester:** Fall 2016

**Instructor:** Dr. Le Gruenwald

**Group Project Number:** 16

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**Score:**

## 1) Venue ER Diagram

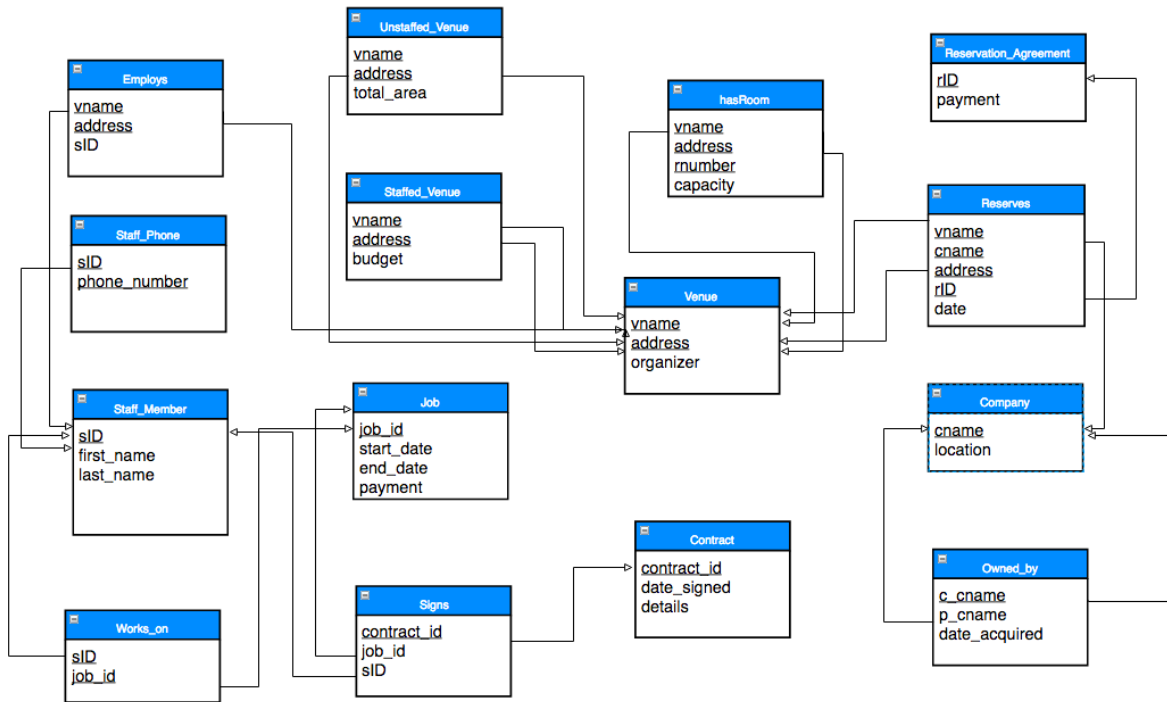
a) Write a description for the attached ER diagram.

- 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)
- Staffed\_Venue(vname, address, budget)
- 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)
- Employs(vname, address, sid)

c) Draw a Schema Diagram for the relational database.



## 3) Revised Question 3 ER Diagram

