Group Project 2

Course: CS/DSA 4513 - DATABASE MANAGEMENT
Section: 001
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Instructor: Dr. Le Gruenwald
Group Project Number: 16
Group Members:
Jeremiah McKinley
Seyedsaeid Hosseinipoor
Alexander Rodriguez Castillo
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.

    2) Venues are either Staffed Venues or Unstaffed Venues. Ustaffed venues have a total area listed and staffed venues have a budget.

    3) Staff Venues employ Staff Members. These members have a unique id. They also have a name separated into first and last and phone numbers. Every staff member is employed by a specific venue.

    4) Staff members may work at one or more jobs. These jobs have a unique job id. They also have a start date an end date and a payment.

    5) Whenever a staff member works on a job there a contract signed. These contracts have a unique contract id. They also hae a data signed and details. Every contract belongs to one staff member/job relatioinship.

    6) Venues are also reserved by companies with a reservation agreement. These reservations have a date. The Reservation agreements have a unique id and a payment. The company has a unique name and a location.

    7) Each company can be owned by a single parent company. The date the are aquired is part of this relation.

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

- Venue(<u>vname</u>, <u>address</u>, organizer)
- Unstaffed_Venue(<u>vname</u>, <u>address</u>, total_area)
- Staffed_Venue(<u>vname</u>, <u>address</u>, budget)
- Reservation_Agreement(<u>rid</u>, payment)
- Company(<u>cname</u>, location)
- Reserves(<u>vname,id</u>, <u>cname</u>, date)
- Staff_Member(<u>sid</u>, name, first_name, last_name)
- Staff_Phone(<u>sID</u>, <u>phone number</u>)
- Job(<u>job id</u>, start_date, end_date, payment)
- Contract(<u>contract id</u>, date_signed, details)
- Room(<u>name</u>, <u>address</u>, <u>number</u>, capacity)
- OwnedBy(<u>c cname</u>, p_name, date_acquired)
- Works_on(<u>id</u>, <u>job id</u>)
- Signs(<u>contract id</u>, sid, job id)
- Employs(<u>vname</u>, <u>address</u>, sid)

c) Draw a Schema Diagram for the relational database.

Employs
vname
address
sID

Unstaffed_Venue
vname
address
total_area

Reservation_Agreement
rID
payment

hasRoom
vname
address
rnumber
capacity

Staffed_Venue
vname
address
budget

Reserves
vname
cname
address
rID
date

Staff_Phone
sID
phone_number

Venue
vname
address
organizer

Staff_Member
sID
first_name
last_name

Job
job_id
start_date
end_date
payment

Company
cname
location

Contract
contract_id
date_signed
details

Owned_by
c_cname
p_cname
date_acquired

Works_on
sID
job_id

Signs
contract_id
job_id
sID