

COURSE: CS/DSA-4513 -DATABASE MANAGEMENT

SECTION: 001

SEMESTER: FALL 2021

INSTRUCTOR:

GROUP NUMBER: 18

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SCORE:

# 1

a)

A company can sign a reservation agreement to reserve a venue. A unique name and a location will be recorded for each company. The date of each reservation is stored in the database.

Companies may at any time be acquired by another company. The date of the acquisition will be recorded in the database

Venues, either staffed or unstaffed, can be reserved via a reservation agreement. Every venue has a unique name and address combination. Staffed venues have a budget for staff and unstaffed venues will have an area recorded in the database.

Staffed venues employ staff members to work specific jobs. A job has a unique ID and a payment ammount. Employee start and end dates are stored. When working a job an employee signs a contract. Each contract has a unique ID. The date the contract is signed as well as details about the contract are stored in the database.

Any type of venue can have any number of rooms for which the capacity and a unique room number for the venue will be stored.

b)

Reservation\_Agreement(ID, payment)

Company(name, location)

Unstaffed(name, address, area)

Staffed(name, address, budget)

Job(job\_id, payment)

Staff\_member(ID, first\_name, last\_name)

Staff\_phone(ID, phone\_number)

Room(name, address, number, capacity)

reserves(ID, name, date)

owned\_by(name, name, date\_acquired)

employs(ID, name\_venue, address\_venue)

works\_on(ID, job\_id, start\_date, end\_date)

signs(contract\_id, staff\_id, job\_id)

c)

