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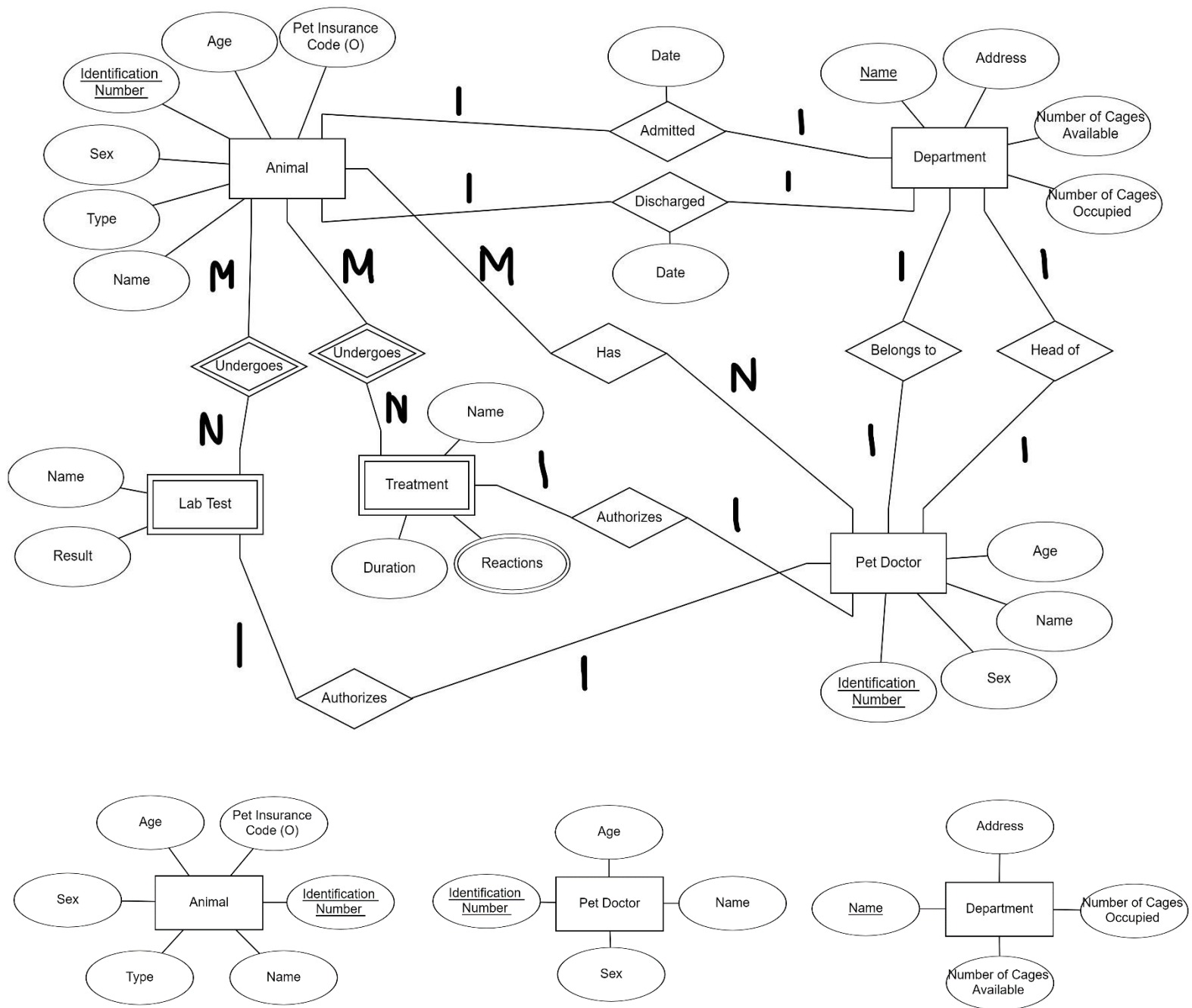
CS 1555 – Database Management Systems

April 13, 2020

Assignment #9: E-R Model

Assumptions:

- Each pet doctor has the attributes: identification number (unique), age, sex and name
- Each department name is unique.

The resulting schemas after mapping:

ANIMAL (<u>identification_number</u>, name, age, sex, type, pet_insurance_code)

DEPARTMENT (<u>name</u>, address, available_cages, occupied_cages, pet_insurance)

FK(pet_insurance) → ANIMAL (pet_insurance_code)

PET_DOCTOR (<u>id</u>, name, age, sex, department_name, animal_id_assigned)

FK(department_name) → DEPARTMENT (name)

FK(animal_id_assigned) → ANIMAL (identification_number)

LAB_TEST (<u>doctor_id, animal_id, name, result</u>)

FK(doctor_id) → PET_DOCTOR(id)

FK(animal_id) → ANIMAL (identification_number)

TREATMENT (<u>doctor_id, animal_id, name, duration, reactions</u>)

FK(doctor_id) → PET_DOCTOR(id)

FK(animal_id) → ANIMAL (identification_number)