ZOOKEEPER DATABASE ER

Pathak

ZOO — attributes: City, State, Zoo_ID, Zoo_Address, Zip, Zoo_Name, Zoo_Continent, Contact_info

ANIMAL — attributes: Animal_ID, Gender, Name, Habitat_ID, Species_ID, Age, Weight, Status

HABITAT — attributes: Zoo_ID, Habitat_ID, Habitat_Name, Climate, Habitat_Type

SPECIES — attributes: Species_ID, Species_Name, Genus, Protection_Status, Extinction_Probability, Expected_Extinction_Year, Common_Name, Recorded_Year

MEDICAL_RECORD — attributes: Treatment, Health_Condition, Animal_ID, Checkup_Date, Notes

DIET — attributes: Animal_ID, Diet_Type, Diet_Name, Serving_Size, Nutrient

Relationships:
- ZOO — Has — ANIMAL : 1 N ; (0,n) (1,1)
- ZOO — Has — HABITAT : 1 N ; (1,n) (1,1)
- ANIMAL — Live_In — HABITAT : N 1 ; (0,1) (0,n)
- ANIMAL — Part_Of — SPECIES : N 1 ; (1,1) (1,n)
- ANIMAL — Has — MEDICAL_RECORD : 1 N ; (0,n) (1,1)
- ANIMAL — Has — DIET : 1 N ; (1,n) (1,1)
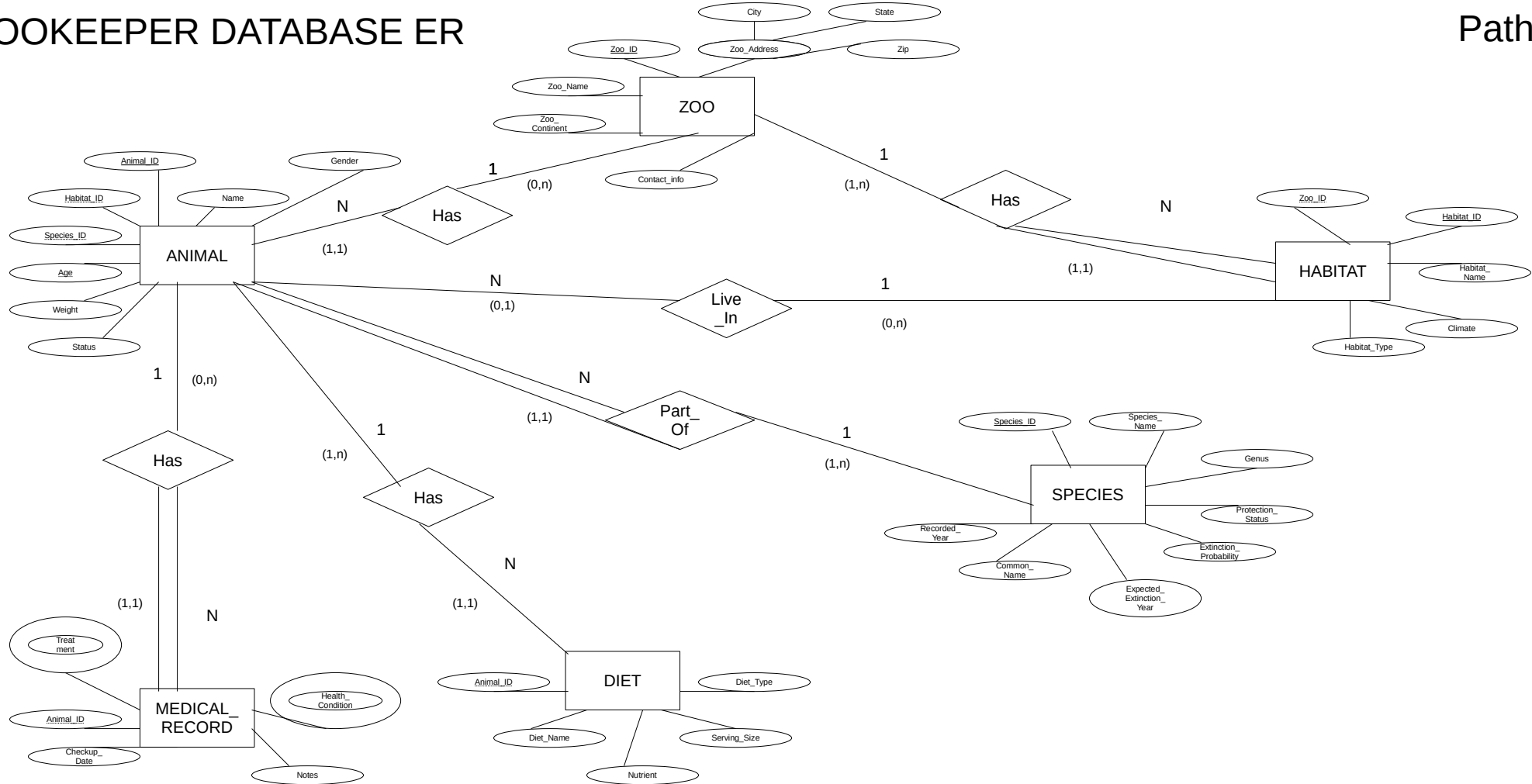
Assumptions:
-ZOO Has ANIMAL
Cardinality: One Zoo (1) may have many Animals (N)
Min,Max: One Zoo may have multiple Animals and each Animal belongs to one zoo.
-ZOO Has HABITAT
Cardinality: One Zoo(1) may have many Habitats(N)
Min,Max:One Zoo may have multiple Habitats and many Habitats belong to one Zoo.
-ANIMAL Live In HABITAT
Cardinality: Multiple Animals(N) live in one Habitat (1)
Min,Max: An Animal may belong to one or none Habitats and Habitats may have none or many Animals.
Cardinality
-ANIMAL Has MEDICAL_RECORD
Cardinality: One Animal(1) may have multiple Medical Records(N)
Min,Max: One Animal may have none or multiple Medical Records and one Medical Records is associated with one Animal.
-ANIMAL Has DIET
Cardinality: One Animal (1) may have multiple Diets(N)
Min,Max: One Animal needs to have at least 1 Diet or more and and each Diet belongs to one Animal.
-ANIMAL Part Of SPECIES
Cardinality: Multiple Animals (N) may belong to one Species (1)
Min,Max: An Animal must belong to at least one Species and one Species must have at least 1 Animal.

Key Pairs:
-ZOO.Zoo_ID = HABITAT.Zoo_ID
-HABITAT.Habitat_ID = ANIMAL.Habitat_ID
-ANIMAL.Animal_ID = DIET.Animal_ID
-ANIMAL.Animal_ID = MEDICAL_RECORD.Animal_ID
-SPECIES.Species_ID = ANIMAL.Species_ID