

**جــامـعـة الإسراء الخــاصــة**

**كـليـة تكـنولوجيـا المعلومـات**

**Isra University**

**Faculty of IT**

**Second Semester 2023/2024**

|  |  |  |
| --- | --- | --- |
| Course Title: Database1 | Course No.: | HW No : 3 |
| Submitted to: Dr. Maher Abuhamdeh | | |
| Student Number:  AB1199 | Student Name:  حمزة خالد مسلم | Date:  04 / 06 / 2024 |

Design ER-Diagram of a ZOO then and map it to relations .

The ZOO stores information about animals, cages, and zoo keepers.

■ Animals are of a certain species and have a name. For each animal we want to record its animal ID, name, species, age, gender, weight

■ Each cage is located in a section of the zoo. Cages can house animals, but there may be cages that are currently empty. Cages have a size in square meter. Each cage can contain one or more animals. We can include attributes like cage ID, size, and location

■ Zoo keepers are identified by their social security number. We store a first name, last name, and for each zoo keeper.

Zoo keepers are assigned to cages they have to take care of (clean, …). Each cage that is not empty has a zoo keeper assigned to it. A zoo keeper can take care of several cages. Each zoo keeper takes care of at least one cage. We can include attributes like staff ID, name, position, and expertise

1

Animal

housed\_in

Cage

M

N

assigned\_to

assigned\_to

N

N

M

Zookeeper

Assignment

Cages

Zookeepers

Animals

Assigned

cage\_id

sizes

location

ssn

first\_name

last\_name

position

expertise

animal\_id

name

spices

age

gender

weight

cage\_id

AssignmentID

cage\_id

ssn

