Lions Management Database For National Parks

- a) Entities List
 - Lions
 - Parks
 - Sponsors
 - Rangers
- b) Attributes List
 - Lions
 - ➤ Lion Name
 - ➤ Lion ID
 - ➤ Gender
 - > Age
 - ➤ Park Name
 - Parks
 - ➤ Park Name
 - ➤ Park Location
 - ➤ Park Area in Km²
 - ➤ Lion ID
 - > Sponsor Name
 - > Sponsor ID
 - Sponsors
 - > Sponsor Type e.g., NGO, government or individual
 - > Sponsor ID
 - > Sponsor Name
 - > Park Name
 - ➤ Lion ID
 - Rangers
 - ➤ Ranger's Name
 - ➤ Ranger ID
 - Park Name
- c) Relationships and Constraints
 - Lions live in the national parks.
 - Sponsors fund the national parks.
 - Rangers work in the parks i.e., protecting the lions.
 - Lions can migrate among the parks, therefore a 0 to many relationship (0..*).
 - The area of the park constraints the number of lions that live there, hence (n)
 - The amount of funding received by a park determines how well they are equipped to care for the lions.
 - Parks can have a limited number of rangers due to funding, therefore (m..n)
 - A park can 0 to many sponsors hence (0..*).
 - A sponsor can sponsor parks up to a certain number hence (m..n).

• A ranger can work in only one park at a time hence (0..1)

d) <u>UML Diagram</u>

