

For the scenario below identify the entities, their attributes and appropriate keys

### Finsbury Happy Zoo

Finsbury Happy Zoo's concept is to show animals together in their habitats. They have a number of **enclosures** of different habitat types (such as forest or tundra), different sizes (square metres), each having a main feature (such as a stream or a cave). **Animals** of different **species** share the same enclosure. Each **enclosure** has a unique number and there can be several enclosures with the same habitat but with a different main feature or of a different size. Each **animal** has a unique ID, and their name, date\_of\_birth, diet and description are stored. When an animal is put in an enclosure, the start date is recorded, and if they are transferred to another enclosure the end date is recorded. Zoo keepers may need to make a note about a particular animal, for example "not eating well today" and this is recorded along with the date. To make sure the animals don't eat each other a species **compatibility table** is maintained which has the following information; speciesA, speciesB, compatibility\_rating (5 for happy neighbours to 1 for bitter enemies). **Species** are identified by their name, and a description of the species and their habitat type are recorded. Species are matched against enclosures by Zoo staff, and if suitable the maximum number of animals of a particular species for a particular enclosure is recorded to prevent overcrowding.

#### Enclosure

Unique Number (Key)  
Habitat  
Size  
Main Feature  
Maximum of Species A...

#### Animal

Unique ID (Key)  
Species  
Name  
DOB  
Diet  
Description  
Notes

#### Animal Enclosure Assignment

Unique ID (Foreign Key)  
Current Enclosure  
Start Date  
End Date

#### Compatibility table

Species A  
Species B  
Compatibility rating

#### Species

Name (Key)  
Description

Habitat Type  
Enclosure match