

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.

Habitant (entity)

HabitantType – forest
Size – 3
MainFeature – Cave – Primary Key

Enclosure (entity)

UniqueNumber – 12 – Primary Key
Habitat – forest
Size – 2
MainFeature - Cave

Animal (entity)

UnquieID – 1 – Primary Key
Name - Borsik
DateOfBirth – 11/02/1999
Diet - meat
Description – Blue eyes
StartDate – 11/03/2000
EndDate – 11/03/2020
Note – not eating well
DateOfNote – 11/11/2011

Compatibility Table (entity)

SpeciesA - Birds
SpeciesB - Dogs
CompatibilityRating – 4 – Primary Key

Species (entity)

Name – Cats – Primary Key
DescriptionOfSpecies – very friendly
HabitatType - muddy
MaximumNumOfAnimalsPerEnclosure - 12

