

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.

Enclosures

Enclosure number

Habitat Type

Size

Main Feature

Animals

Animal ID

Species

Enclosure

Start Date

End Date

Name

Date of Birth

Diet

Description

Notes

Animal ID

Note

Date Recorded

Species

Species Name

Description

Habitat Type

Max per Enclosure

Species Compatibility Table

Species A

Species B

Compatibility Rating

Relationships

Enclosures

Enclosure number

Habitat Type

Size

Main Feature

Animals

Animal ID

Species

Enclosure

Start Date

End Date

Name

Date of Birth

Diet

Description

Notes

Animal ID

Note

Date Recorded

Species

Species Name

Description

Habitat Type

Max per Enclosure

Species Compatibility Table

Species A

Species B

Compatibility Rating