

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.

Zoo(entity)

Habitat entity

Habitat types

Size of each habitat

Main feature such as stream or a cave

Type of animal

Animal(each species is a entity) (own table)

Date of birth

Species

Diet and description

Unique id for each animal(primary key)

End date of transfer of each animal

Type of habitat for each species

Keepers entity

Unique keeper id(primary key)

Keepers notes for each animal they take care of

Date of each note

Notes table (entity)

Keeper notes for each animal they take care of (composite key)

Species

Compatilbility rating

- Species ID for checking primary key
- Compatibility Rating