Anisa Choudhury

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
Zoo_name (key)
No_of_enclosures
Habitat_types
Square_metres
Main_feature

Enclosure
Enclosure_No (key)
Habitat_main_feature
Habitat_size

Animal
Animal_ID (key)
Animal_name
Animal_DOB
Animal_diet
Animal_description

Enclosure_animal
Animal_ID (key)
Animal_name
Enclosure_No (key)
Start_date (key)
End_date

Animal_notes
Animal_ID (key)
Note_no (key)
Date

Note

Compatibility_table
Species_A (key)
Species_B (key)
compatibility_rating

Species
Species_ID (key)
Species_name
Species_description
Habitat_type

Species _enclosure_arrangement
Arrangement_ID (key)
Enclosure_No (key)
Species_ID (key)
Species_name
Max_no_of_species