

1. Enclosure

Attributes:

EnclosureNumber (Primary Key, uniquely identifies each enclosure)

HabitatType (type of habitat, e.g., forest, tundra)

Size (size of the enclosure in square meters)

MainFeature (prominent feature of the enclosure, e.g., stream, cave)

2. Animal

Attributes:

AnimalID (Primary Key, uniquely identifies each animal)

Name (the animal's name)

DateOfBirth (date the animal was born)

Diet (the animal's dietary needs)

Description (a description of the animal)

3. AnimalEnclosure (Animal Transfer History)

Attributes:

AnimalID (Part of Composite Primary Key, identifies the animal being transferred)

EnclosureNumber (Part of Composite Primary Key, identifies the enclosure the animal is in)

StartDate (the date the animal was put into the enclosure)

EndDate (the date the animal was transferred out of the enclosure, if applicable)

Keys:

Composite Primary Key (AnimalID, EnclosureNumber, StartDate)

4. Note

Attributes:

AnimalID (Foreign Key, identifies the animal the note is about)

NoteDate (Primary Key, the date the note was made)

NoteText (the content of the note, e.g., "not eating well today")

5. Species

Attributes:

SpeciesName (Primary Key, uniquely identifies the species by name)

Description (a description of the species)

HabitatType (the type of habitat the species naturally lives in, e.g., forest, tundra)

6. SpeciesCompatibility

Attributes:

SpeciesA (Part of Composite Primary Key, one species in the compatibility relationship)

SpeciesB (Part of Composite Primary Key, the other species in the compatibility relationship)

CompatibilityRating (rating from 1 to 5, where 5 is fully compatible and 1 is highly incompatible)

Keys:

Composite Primary Key (SpeciesA, SpeciesB)

7. SpeciesEnclosureCapacity

Attributes:

SpeciesName (Part of Composite Primary Key, identifies the species)

EnclosureNumber (Part of Composite Primary Key, identifies the enclosure)

MaxNumberOfAnimals (the maximum number of animals of that species allowed in the enclosure)

Keys:

Composite Primary Key (SpeciesName, EnclosureNumber)

Keys:

Primary Keys:

Enclosure: EnclosureNumber

Animal: AnimalID

AnimalEnclosure: Composite key (AnimalID, EnclosureNumber, StartDate)

Note: Composite key (AnimalID, NoteDate)

Species: SpeciesName

SpeciesCompatibility: Composite key (SpeciesA, SpeciesB)

SpeciesEnclosureCapacity: Composite key (SpeciesName, EnclosureNumber)