

Based on the provided scenario for Finsbury Happy Zoo, it can be identifying the following entities, their attributes, and appropriate keys:

## Entities and Attributes

### Enclosure

#### Attributes:

Enclosure ID (Primary Key)

Habitat Type (e.g., forest, tundra)

Size (square meters)

Main Feature (e.g., stream, cave)

#### Key:

Enclosure ID (unique identifier for each enclosure)

### Animal

#### Attributes:

Animal ID (Primary Key)

Name

Date Of Birth

Diet

Description

#### Key:

Animal ID (unique identifier for each animal)

### Animal Enclosure

#### Attributes:

Animal Enclosure ID (Primary Key)

Animal ID (Foreign Key referencing Animal)

Enclosure ID (Foreign Key referencing Enclosure)

Start Date

End Date (nullable, for current enclosures)

Key:

Animal Enclosure ID (unique identifier for each animal's enclosure record)

#### Keeper Note

Attributes:

Note ID (Primary Key)

Animal ID (Foreign Key referencing Animal)

Note (e.g., "not eating well today")

Date

Key:

Note ID (unique identifier for each note)

#### Species

Attributes:

Species ID (Primary Key)

Name (unique identifier for species)

Description

Habitat Type

Key:

Species ID (unique identifier for each species)

#### Species Compatibility

Attributes:

CompatibilityID (Primary Key)

Species A (Foreign Key referencing Species)

Species B (Foreign Key referencing Species)

Compatibility Rating (1 to 5)

Key:

CompatibilityID (unique identifier for each compatibility record)

### Species Enclosure Limit

#### Attributes:

Species Enclosure Limit ID (Primary Key)

Species ID (Foreign Key referencing Species)

Enclosure ID (Foreign Key referencing Enclosure)

Max Animals

#### Key:

Species Enclosure Limit ID (unique identifier for each species limit in an enclosure)

### Summary of Keys

Primary Keys are unique identifiers for each entity.

Foreign Keys establish relationships between entities, linking related records.

This structure provides a comprehensive way to manage the relationships and data for the Finsbury Happy Zoo, ensuring that all aspects of animal management, enclosure details, and species compatibility are covered.