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 <a href="mailto:enclosures">enclosures</a> of different <a href="mailto:habitat types">habitat types</a> (such as forest or tundra), different <a href="mailto:sizes">sizes</a> (square metres), each having a <a href="mailto:mai

#### **Notes:**

- **Entities**: Represents a real-world concept. It can be anything that's unique & has significance in a given field.
- Attributes: Characteristic or properties of the entity

## Types of keys:

- **Primary key:** Ensures that every row in a table has a unique identifier.
- Composite key: A table which has two primary keys
- Candidate key: Are attributes that uniquely identify a record
- Foreign key: A field that links two tables together by using the primary key

## 1. Enclosures

**Entity: Enclosures** 

Attributes:

- Habitat types
- Size
- Main features

Primary Key: Enclosure's unique number

## 2. Animal

Entity: Animal Attributes:

- Name
- Date of Birth
- Diet
- Description

Primary Key: Unique animal ID

#### 3. Animal in Enclosure

Entity: Enclosed animals

Attributes:

- Start date
- End date

Composite Key: Unique animal ID & Enclosure's unique number

# 4. Species

Entity: Species Attributes:

- Description
- Habitat type

Primary Key: Species Name

## 5. Species compatibility

**Entity: Species compatibility** 

Attributes:

• Compatibility rating (1-5)

Primary Key: Species name (Species A, Species B)

## 6. Species in enclosure

Entity: Enclosed species

Attributes:

Max Animals

Composite Key: Enclosure's unique number & Species name

## 7. Animal Notes

**Entity: Animal Notes** 

Attributes:

- Date
- Note text

Primary Key: Note ID Foreign Key: Animal ID