Finsbury Happy Zoo - Homework

1. Entity: Enclosure

- Attributes:
 - o **Enclosure ID** (Primary Key) unique identifier for each enclosure.
 - Habitat Type type of habitat (e.g., forest, tundra).
 - o Size size of the enclosure in square meters.
 - o Main Feature main feature of the enclosure (e.g., stream, cave).
- Key:
 - Primary Key: Enclosure ID

2. Entity: Animal

- Attributes:
 - o **Animal ID** (Primary Key) unique identifier for each animal.
 - o Name name of the animal.
 - o Date of Birth date the animal was born.
 - Diet dietary requirements of the animal.
 - Description additional details about the animal.
- Key:
 - Primary Key: Animal ID

3. Entity: Animal_Enclosure (Associative Entity)

- Attributes:
 - Animal ID (Foreign Key) references the animal in the enclosure.
 - o **Enclosure ID** (Foreign Key) references the enclosure where the animal is kept.
 - Start Date date the animal was placed in the enclosure.
 - o **End Date** date the animal was transferred to another enclosure (nullable).
- Key:
 - o Composite Key: (Animal ID, Enclosure ID)
 - o Foreign Keys: Animal ID, Enclosure ID

4. Entity: Zookeeper_Note

- Attributes:
 - Note ID (Primary Key) unique identifier for each note.
 - Animal ID (Foreign Key) references the animal the note is about.
 - Note content of the note (e.g., "not eating well today").
 - o **Date** date the note was recorded.
- Key:
 - Primary Key: Note IDForeign Key: Animal ID

5. Entity: Species

- Attributes:
 - o **Species Name** (Primary Key) unique identifier for each species.
 - o **Description** description of the species.
 - Habitat Type habitat type where the species is typically found.
- Key:
 - o Primary Key: Species Name

6. Entity: Compatibility

- Attributes:
 - Species A (Foreign Key) references the first species in the compatibility pair.
 - Species B (Foreign Key) references the second species in the compatibility pair.
 - o **Compatibility Rating** rating of compatibility between the two species (5 to 1).
- Key:
 - o Composite Key: (Species A, Species B)
 - Foreign Keys: Species A, Species B

7. Entity: Enclosure_Species

- Attributes:
 - Enclosure ID (Foreign Key) references the enclosure where the species can be housed.
 - Species Name (Foreign Key) references the species that can be housed in the enclosure.
 - o Max Number of Animals maximum number of animals of that species allowed in the enclosure.
- Key:
 - o Composite Key: (Enclosure ID, Species Name)
 - o Foreign Keys: Enclosure ID, Species Name