

Zoo manager system

Submitted by:

David Ben Yakov 320759921

Kristina Goldin 317958700

Stav Ezra 205969991

In this project, we want to build a database for our JAVA program that manages a zoo.

The program is responsible to monitor the animal's health and needs, documents their feeding and treatments and also adding new animals to the zoo, storing and managing all the relevant data about the zoo animals and showing all the data to the user, by sorting and selecting which data the user is interested in monitoring.

The program also has a sub system that sells tickets to visitors to enter the zoo.

In the sub system, the options are: Selling tickets, making payments, canceling tickets, making zoo entrances, showing purchase and entrance history of all visitors and also adding new visitor files for convenient future purchases.

The program is storing all of the data of purchases, entrances, visitors and employees.

The users of the program are the zoo employees.

In our application, all of the data is stored in different data structures that are built in the JAVA language such as lists, sets, maps etc.

A database solution would be perfect for our program, in order to store the large amount of data in a safe, convenient and organized way. Therefore, in this project we are going to build a database in PostgreSQL, that is going to help us take this program to a new level of magnitude and complexity.

The **entities** of our new database are:

Employees, visitors, tickets, entrances, users and animals.

The **relationships** between entities:

Employees work at the zoo and connect to the program with a username and password.

The employees monitor and document all the zoo animals and also sell tickets to visitors.

The visitors buy tickets and make entrances to the zoo by using the tickets they bought.

ERD diagram:

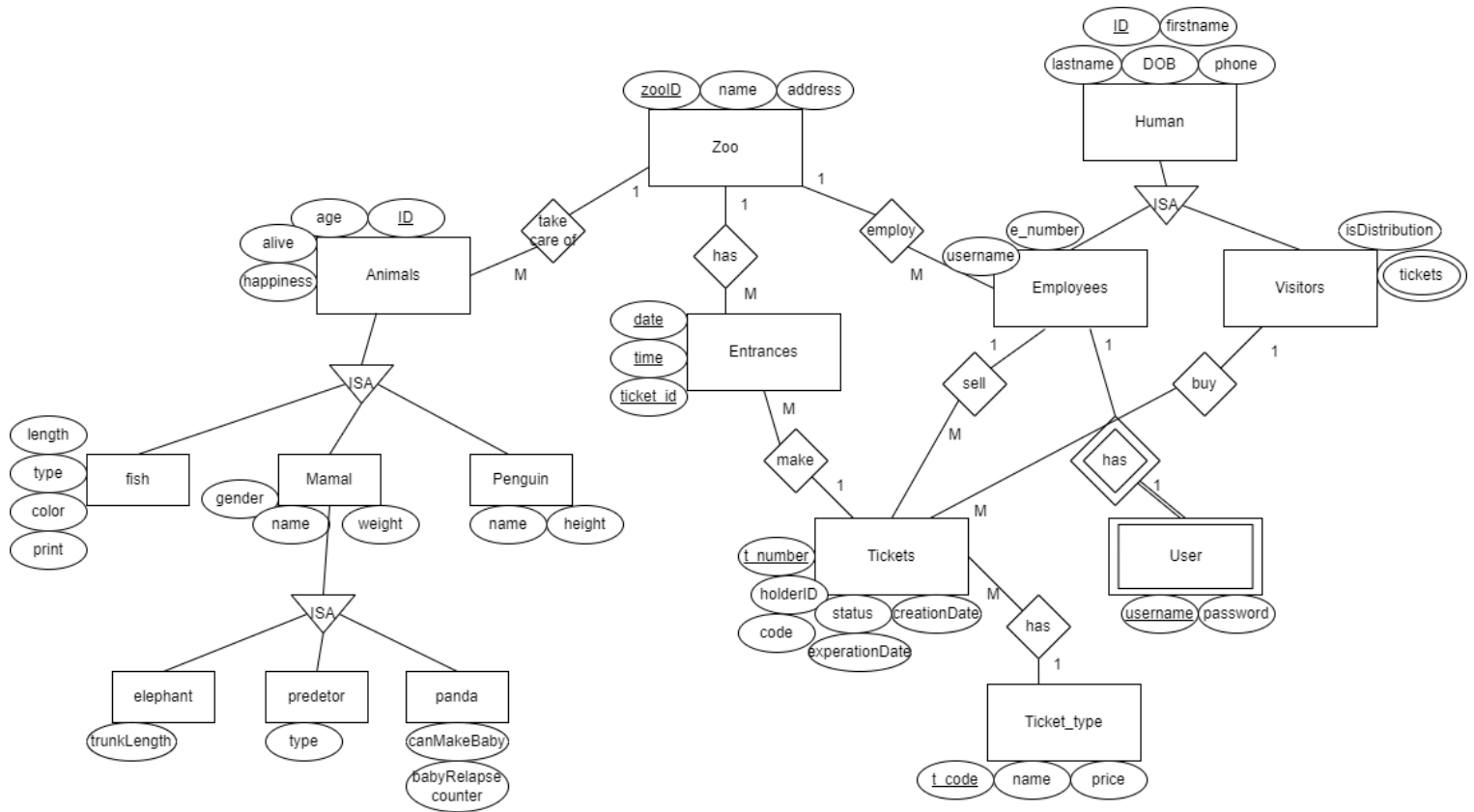


Table diagram:

