Phase 2_Relational Database Schema

Assumptions

We made some enhancements to our EER diagram, we further specified the "name" attribute in the Person entity, we also made the "contactInfo" in Person entity a complex attribute. We added attributes to: Administrator, SafetyPersonnel, Educator, Veterinarian, ZooKeeper, VeterinaryCare, and visitor.

To show our links in a clearer way in the relational database schema:

Entity: Person

ContactInfo.PersonID <u>to</u> Person.ID

Employee.EmployeeID <u>to</u> Person ID

Visitor.VisitorID <u>to</u> Person.ID

Entity: Visitor

Ticket.VID <u>to</u> Visitor.VisitorID

Interact.VID <u>to</u> Visitor.VisitorID

Entity: Employee

ZooKeeper.ZooKeeperID <u>to</u> Employee.EmployeeID

Educator.EducatorID <u>to</u> Employee.EmployeeID

Administraitor.AdminstraitorID <u>to</u> Employee.EmployeeID

SafetyPersonnel.SafetyPersonneID <u>to</u> Employee.EmployeeID

Veterinarian.VetID <u>to</u> Employee.EmployeeID

Entity: ZooKeeper

Manage.ZooKeeperID <u>to</u> ZooKeeper.ZooKeeperID

Animal.ZooKeeperID <u>to</u> ZooKeeper.ZooKeeperID

Entity: Educator

Visitor.EducatorID to Educator.EducatorID

Entity: Enclosure

Animal.EnclosureID to Enclosure.EnclosureID

Manage.EnclosureID to Enclosure.EnclosureID

Entity: Animal

Interact.AnimalID to Animal.AnimalID

Entity: Zoo

Visitor.ZooID to Zoo.ZooID

Administrator.ZooID to Zoo.ZooID
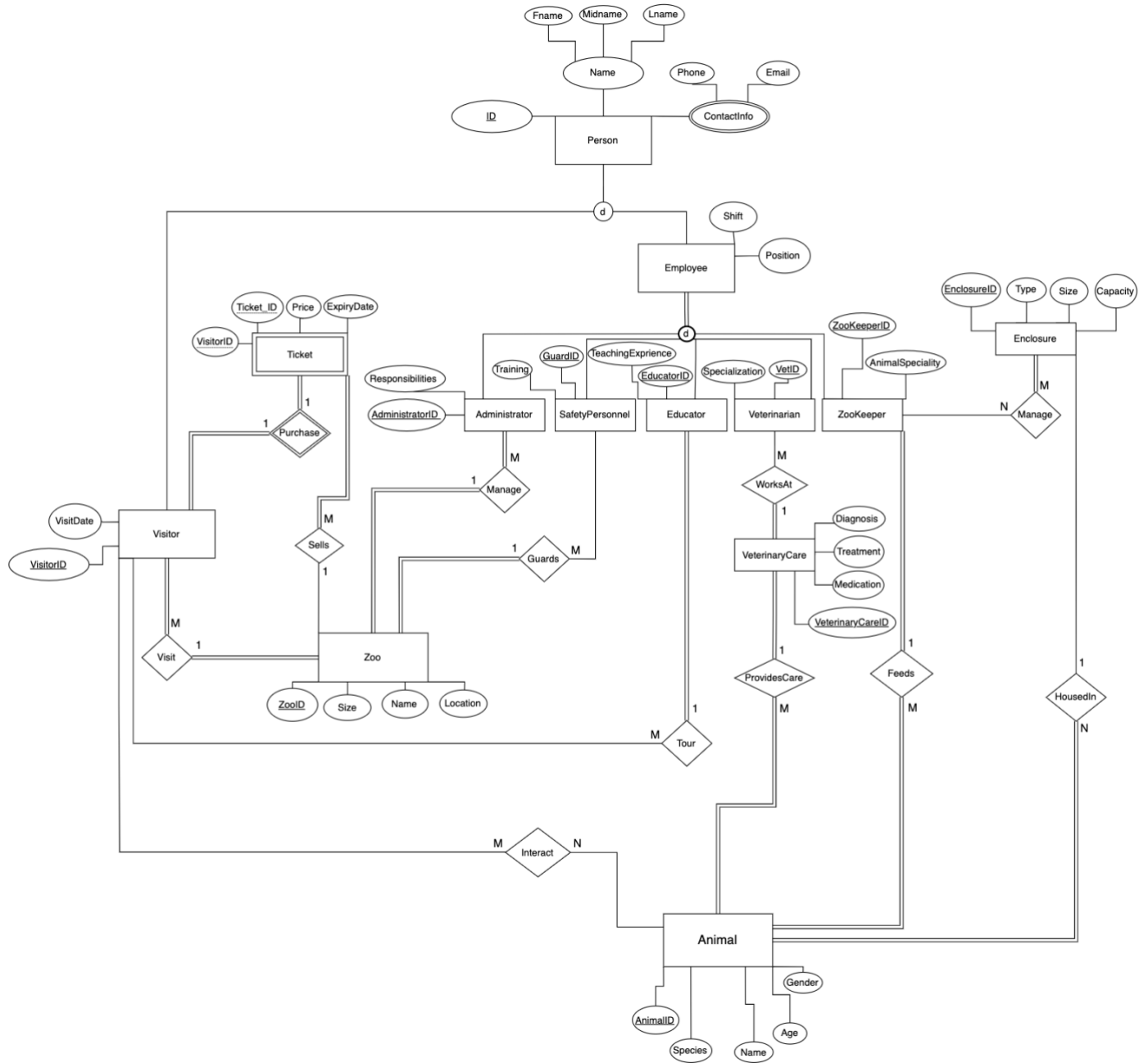
SafteyPersonnel.ZooID to Zoo.ZooID

Ticket.ZooID to Zoo.ZooID

Entity: VetetinaryCare

Veterinarian.VeterinaryCareID to Vetertinary.VeterinaryCareID

Animal.VeterinaryCareID to Vetertinary.VeterinaryCareID

Conceptual Data Model

Relational Database Schema

Person | **ID** | **Fname** | **Midname** | **Lname**

ContactInfo | **ContactInfoID** | **Phone** | **Email** | **PersonID**

Employee | **Shift** | **EmployeeID** | | |

Visitor | **VisitDate** | **VisitorID** | **ZooID** | **EducatorID**

Administrator | **AdministratorID** | **Responsibilities** | **ZooID**

SafetyPersonnel | **SafetyPersonnelID** | **Training** | **ZooID**

Educator | **EducatorID** | **TeachingExprience**

Veterinarian | **VetID** | **Specialization** | **VeterinaryCareID**

ZooKeeper | **ZooKeeperID** | **AnimalSpeciality**

Enclosure | **EnclosureID** | **Type** | **Size** | **Capacity**

Animal | **AnimalID** | **EnclosureID** | **Species** | **Name** | **Age** | **Gender** | **ZooKeeperID** | **VeterinaryCareID**

Ticket | **VID** | **TID** | **Price** | **ExpiryDate** | **ZooID**

Zoo | **ZooID** | **Name** | **Size** | **Location**

VeterinaryCare | **Diagnosis** | **Treatment** | **Medication** | **VeterinaryCareID**

Manage | **ZooKeeperID** | **EnclosureID**

Interact | **VID** | **AnimalID**