

Adoption Center Database

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Link

<https://web.engr.oregonstate.edu/~willijud/Adoption-Center-Database/homepage.html>

Progress

Our current progress is the creation of the basic DML and DDL .sql files, which are contained in the other files in the .zip file that you retrieved this file. None of our SQL is attached to our frontend yet.

Database Outline

Employee: records the details of employees who work within the adoption center.

- **Relationships:**
 - Assign Employees to Animals M:0|M
 - Assign Employees to Locations M:1|M
- **Employee ID***: int, auto_increment, unique, not NULL
- **Employee type**: enum, not NULL
 - Volunteer | part-time | full-time | salaried.
- **Pay-rate**: int, not NULL
- **Ssn**: int, NULL allowed
- **Email**: varchar, NULL allowed
- **Phone**: int, not NULL
- **Hours worked**: int, not NULL

Animal: records the details of each animal that has passed through the adoption center.

- **Relationships:**
 - Assign Animals to Locations M:1
 - Assign Animals to Employees 0|M:M
 - Assign Animals to Beds 0|1:0|1
 - Assign Foster parent to Animals M|0:0|1
- **Animal ID***: int, auto_increment, unique, not NULL
- **Animal Name**: varchar, NULL allowed
- **Animal Species**: enum, not NULL

- dog | cat | other
- **Animal Sex:** enum, female, male, can be NULL
- **Animal breed:** varchar, all lower case, can be NULL
- **Animal Weight:** float, pounds, (0, float_max), no NULL
- **Birthdate:** date, can be NULL
- **Spayed/Neutered :** bool, cannot be NULL
- **Description:** varchar, can be NULL

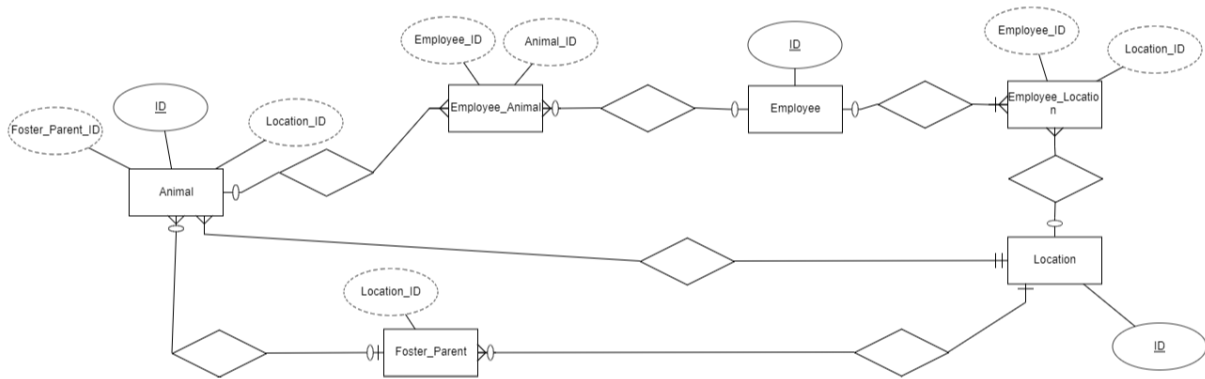
Location: records the details of a location of the adoption center.

- **Relationships:**
 - Assign Locations to Employees 1|M:M
 - Assign Locations to Animals 1:M
 - Assign Locations to Foods M|1:M
 - Assign Locations to Foster parents 1:0|M
 - Assign Locations to Beds 1:M
- **Location ID*:** int, auto_increment, unique, not NULL
- **Address:** varchar, not NULL
- **City:** varchar, not NULL
- **Zip Code:** int, not NULL
- **State:** varchar, not NULL
- **Sq Ft:** int, not NULL
- **Incoming animal rate:** int, animals/per year, [0, intmax), NULL allowed

Foster parent: records the details of foster parents who work with the adoption agency to keep animals outside of the adoption agency facilities.

- **Relationships:**
 - Assign Foster parent to Locations M|0|1
 - Assign Foster parent to Animals M|0:0|1
- **Parent ID*:** int, auto_increment, unique, not NULL
- **Address:** varchar, not NULL
- **City:** varchar, not NULL
- **Zip Code:** int, not NULL
- **State:** varchar, not NULL

ER Diagram



Schema

Employee

ID*: int(11), auto-increment, primary key, no NULL

Type: enum('volunteer', 'part-time', 'full-time', 'salaried'), no NULL, no default

Pay_Rate: int(11), no NULL, default 0

SSN: int(9), yes NULL, no default

Email: varchar(254), yes NULL, no default

Phone: int(15), no NULL, no default

Hours_Worked: int(11), no NULL, default 0

Hiring_Date: date(), no NULL, no default

Employee_Animal

Employee_ID*: int(11), foreign key to Employee.ID, no NULL

Animal_ID*: int(11), foreign key to Animal.ID, no NULL

Employee_Location

Employee_ID*: int(11), foreign key to Employee.ID, no NULL

Location_ID*: int(11), foreign key to Location.ID, no NULL

Animal:

ID*: int(11), auto increment, primary key, no NULL

Location_ID*: int(11), foreign key to Location.ID, no NULL

Foster_Parent_ID*: int(11), foreign key to Foster_Parent.ID, NULL allowed

Name: varchar(50), yes NULL, no default

Species: enum('dog', 'cat', 'other'), no NULL, no default

Sex: enum('female', 'male', 'other'), no NULL, no default

Breed: varchar(20), yes NULL, default NULL

Notes: All lowercase

Weight: decimal(6, 4), non-negative, no NULL, no default

Notes: Units are pounds (lbs)

Birthdate: date(), yes NULL, no default

Spayed/Neutered: bool(), no NULL, default 0

Description: varchar(1000), yes NULL, no default

Location:

ID*: int(11), auto-increment, primary key, no NULL

Address: varchar(35), no NULL, no default

City: varchar(28), no NULL, no default

Zip_Code: varchar(10), no NULL, no default

State: varchar(2), no NULL, no default

Notes: Standard 2 letter state abbreviations

Sq_Ft: int(11), no NULL, no default

Animal_In_Rate: int(11), yes NULL, default 0

Notes: Units are Animals/Year

Foster Parent:

ID*: int(11), auto-increment, primary key, no NULL

Location_ID*: int(11), foreign key to Location.ID, no NULL

Address: varchar(35), no NULL, no default

City: varchar(28), no NULL, no default

Zip_Code: varchar(10), no NULL, no default

State: varchar(2), no NULL, no default

Notes: Standard 2 letter state abbreviations
