

Adoptable Dogs Database

Computational Databases Final Project

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Project Goal



RDBMS

Design a RDBMS through an ER model for an adoptable dogs database



Development

Develop a web application using PHP/HTML/MySQL



Use

Test and use the website created for CRUD operations on the database

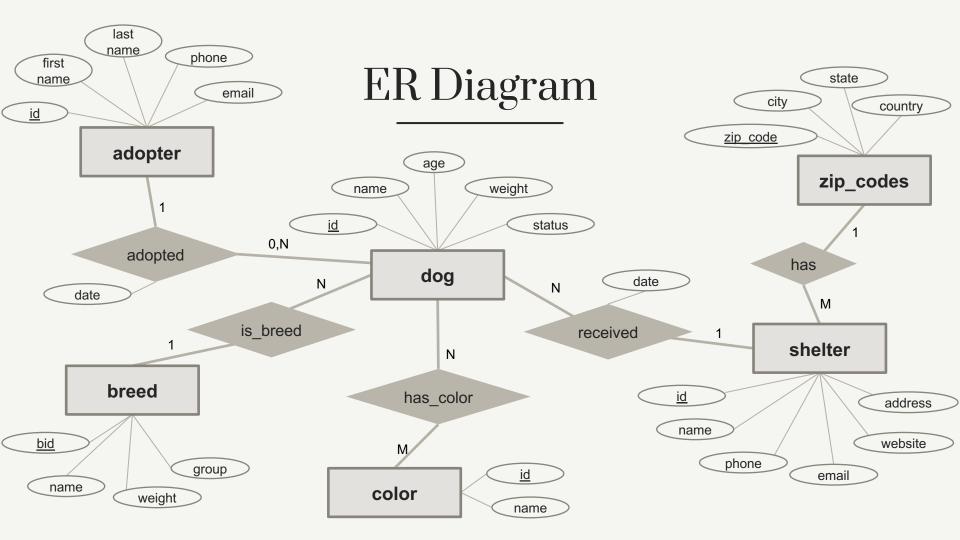
Adoptable Dogs Database

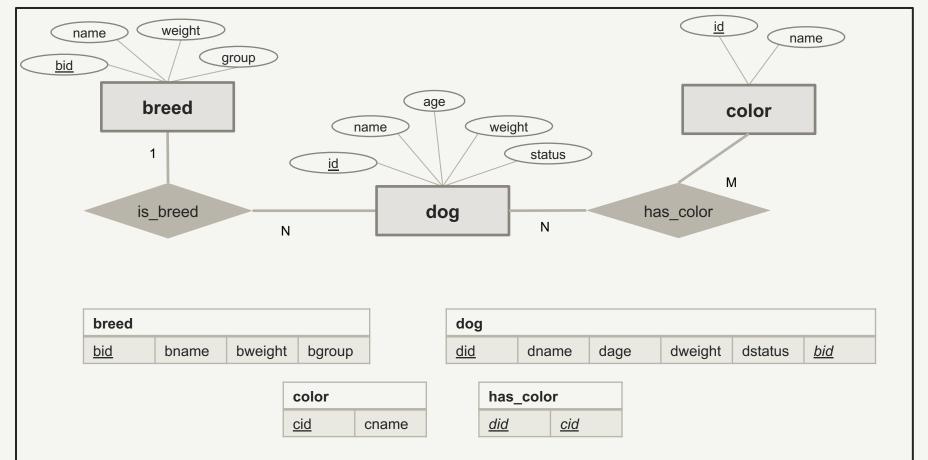
Scope and Aim

- Information about adoptable dogs
 - physical characteristics
 - shelter
- Information about shelters
- Information about adopters

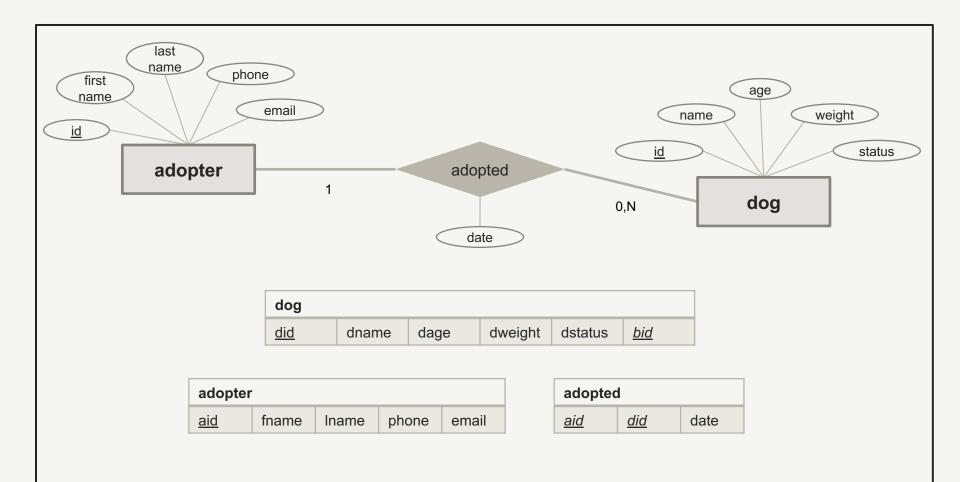
Entities

- Dog
- Shelter
- Zip Codes
- Adopter
- Breed
- Color

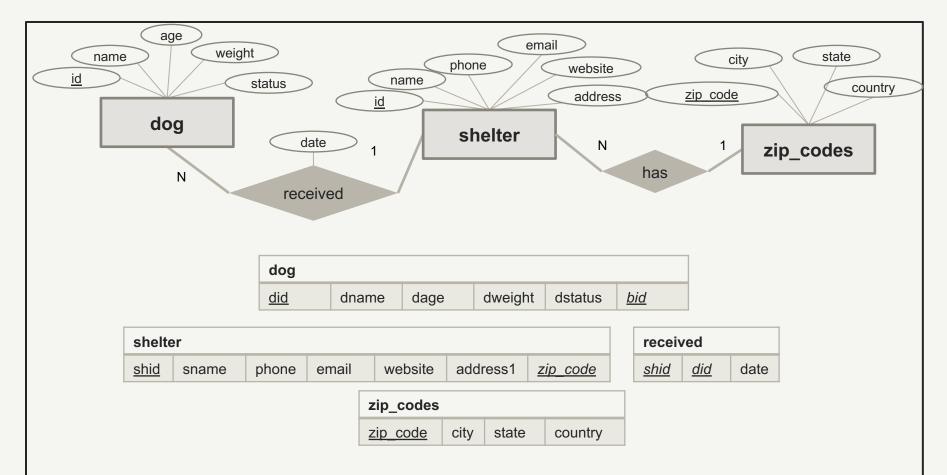




assumption: a dog can only be one breed (mixed is an option) assumption: a dog can be many colors



assumption: an adopter can adopt many dogs



assumption: a shelter has many dogs, multiple shelters can have the same zip code normalization to avoid data redundancy, transitive dependency: 3NF

Web Application

Adoptable Dogs Database

Search for an

Adoptable Dog

Search the database for an adoptable dog. You can search based on age or based on breed

AGE SEARCH BREED SEARCH

Add an Adoptable Dog

This action allows you to add an adoptable dog to the database.

Add an Adoption Entry

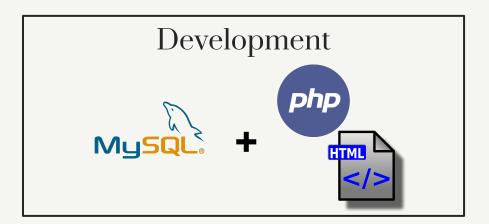
Update a dog to adopted and enter the adopter's infomation.

LINK

Update a dog's info

This action allows you to update a dog in the database. An example of an acceptable update is weight change.

LINK



Typical User Workflow

Search for dog



Adopt the dog



Add Adopter Info

CRUD Operations

Create

- create a new dog
- create an adopter (adoption required)

Read

- search dog by age
- search dog by breed

Update

- update dog info
- update dog to adopted (upon adopter creation)

Delete

delete a dog

Assumptions

- adoptable dog information is the most important
- participating shelters are predefined but can be added on the backend
- searching for dog means you are interested in adopting

Limitations

- predefined breed choices
- predefined color choices
- predefined shelters
- choose a specific dog to adopt
- up to 2 colors

Demo