

NOVEMBER 1, 2022

PAWSOME PETS

STEP 1:
CONCEPTUAL

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Main Entity Types

- CLINIC
- STAFF
- OWNER
- PET
- APPOINTMENT

The main physical entities for the Pawsome Pets database are the Clinic, the Staff, the Owner, and the Pet. Additionally, the conceptual entity is the appointment.

NOTE: All relationships below assume each clinic and each person can only have one address and one telephone number on file. Each pet can only be owned by one person, and a clinic can service an infinite number of pets.

Main Relationship Types

- EACH CLINIC EMPLOYS SEVERAL MEMBERS OF A STAFF.
- ONE STAFF MEMBER MANAGES ONE CLINIC.
- EACH OWNER SUBSCRIBES TO A CLINIC
- EACH PET IS REGISTERED TO A CLINIC.
- EACH OWNER OWNS ONE OR MORE PETS.
- EACH OWNER ISSUES ONE OR MORE CONTACTS.
- EACH OWNER CONTACT COMMUNICATES WITH ONE CLINIC.
- EACH OWNER CONTACT CONTACT INITIATES ONE APPOINTMENT.
- EACH APPOINTMENT SEES ONE PET.
- EACH APPOINTMENT IS PERFORMED BY A STAFF MEMBER.
- EACH STAFF MEMBER CAN DO MULTIPLE APPOINTMENTS .
- PAWSOME PETS OPERATES CLINICS.

Multiplicity Constraints

- PAWSOME PETS OPERATES MANY CLINICS.
- EACH CLINIC HAS MANY MEMBERS OF A STAFF.
- EACH CLINIC HAS ONE OR MORE OWNERS
- ONE STAFF MEMBER MANAGES ONE CLINIC.
- MANY PETS ARE REGISTERED TO EACH CLINIC.
- EACH OWNER OWNS ONE OR MORE PETS.
- EACH OWNER ISSUES ONE OR MORE CONTACTS.
- EACH OWNER CONTACT COMMUNICATES WITH ONE CLINIC.
- ONE OWNER CONTACT INITIATES ONE APPOINTMENT.
- ONE APPOINTMENT SEES ONE PET.
- ONE APPOINTMENT IS PERFORMED BY ONE STAFF MEMBER.
- ONE STAFF MEMBER CAN PERFORM MULTIPLE APPOINTMENTS .

Attributes

- **CLINICS**
 - **CLINIC NUMBER**
 - **CLINIC NAME**
 - **CLINIC ADDRESS**
 - **CLINIC TELEPHONE NUMBER**
- **STAFF**
 - **STAFF NUMBER**
 - **STAFF NAME**
 - **STAFF ADDRESS**
 - **STAFF TELEPHONE NUMBER**
 - **STAFF DATE OF BIRTH**
 - **STAFF POSITION**
 - **STAFF SALARY**
- **OWNER**
 - **OWNER NUMBER**
 - **OWNER NAME**
 - **OWNER ADDRESS**
 - **OWNER TELEPHONE NUMBER**
- **PET**
 - **PET NUMBER**
 - **PET NAME**
 - **PET DATE OF BIRTH**
 - **PET SPECIES**
 - **PET BREED**
 - **PET COLOR**
- **APPOINTMENT**
 - **CHIEF COMPLAINT**
 - **DESCRIPTION**
 - **DATE SEEN**
 - **ACTIONS TAKEN**
 - **EXAMINATION NUMBER**

Keys

- **CLINICS**
 - **PRIMARY KEY: CLINIC NUMBER**
 - **CANDIDATE KEYS: CLINIC TELEPHONE NUMBER, CLINIC ADDRESS**
- **STAFF**
 - **PRIMARY KEY: STAFF NUMBER**
 - **CANDIDATE KEYS: STAFF TELEPHONE NUMBER, STAFF ADDRESS**
- **OWNER**
 - **PRIMARY KEY: OWNER NUMBER**
 - **CANDIDATE KEYS: OWNER TELEPHONE NUMBER, OWNER ADDRESS**
- **PET**
 - **PRIMARY KEY: PET NUMBER**
 - **CANDIDATE KEYS: NONE**
- **APPOINTMENT**
 - **PRIMARY KEY: EXAMINATION NUMBER**
 - **CANDIDATE KEYS: NONE**

Entity-Relationship Diagram

