

Interview Questions and Answers

Interviewee Role: Manager of Petsmart

Interview Questions & Answers

Q1: What types of animals are available for adoption at the center?

A1: Our center houses dogs, cats, and small animals like rabbits and guinea pigs. Each pet has unique attributes such as breed, age, medical history, and vaccination status.

Q2: How do you track available pets?

A2: Each pet has a unique ID, and we maintain records of their name, breed, age, gender, medical history, vaccination records, and current status (Available, Adopted, In Foster Care, Under Medical Treatment).

Q3: What is the adoption process like?

A3: Interested adopters must fill out an application providing their name, address, and contact details. If approved, they schedule a meeting with the pet. Once finalized, we record the pet's ID, adopter's ID, and the adoption date.

Q4: Can adopters return pets? If so, how is that managed?

A4: Yes, adopters may return pets within a specified period. If a pet is returned, we update its status back to "Available" and track the reason for return.

Q5: Do you allow potential adopters to reserve pets before adoption?

A5: Yes, interested adopters can place a reservation on an available pet. We record their ID, the pet's ID, and the reservation date. If they fail to complete the adoption within a given timeframe, the pet becomes available again.

Q6: How do you track medical and vaccination records?

A6: Each pet has a medical history log, including vaccination dates, illnesses, treatments, and vet visits. We also set reminders for upcoming vaccinations.

Q7: Is there a limit to how many pets a person can adopt or reserve?

A7: Yes, individuals can adopt up to **two pets** at a time and can reserve only **one pet** at a time.

Q8: How do you track if a pet is lost or returned?

A8: If a pet is reported lost after adoption, we flag it in the system and record the last known adopter's details. If returned, we update its status and add a note about the return reason.

Q9: Can you generate reports from your system? What kinds of reports are needed?

A9: Yes, we generate monthly reports on adoption rates, pet health status, most adopted breeds, and pending reservations. These reports help us improve operations and manage pet care.

Q10: What security measures are in place for personal data protection?

A10: All adopter and pet data is encrypted, and access is restricted to authorized personnel. We comply with animal welfare and data protection regulations to ensure privacy and security.

Entities and Attributes

1. Pets

Attributes:

- Pet ID (Primary Key, String)
- Name (String)
- Breed (String)
- Age (Integer)
- Gender (Enum: Male, Female)
- Medical History (Text)
- Vaccination Records (Text)
- Status (Enum: Available, Adopted, In Foster Care, Under Medical Treatment)

2. Adopters

Attributes:

- Adopter ID (Primary Key, String)
- Name (String)
- Address (String)
- Contact Details (String)

Relationships and Cardinality

a. Adopts (between Adopters and Pets)

- **Cardinality:**
- An adopter can adopt **0 to 2 pets**.
- Each pet can be adopted by **only one adopter** at a time.
- **Attributes:**
- Adoption Date (Date)

b. Reserves (between Adopters and Pets)

- **Cardinality:**
- An adopter can reserve **only one pet** at a time.
- A pet can be reserved by **only one adopter** at a time.
- **Attributes:**
- Reservation Date (Date)

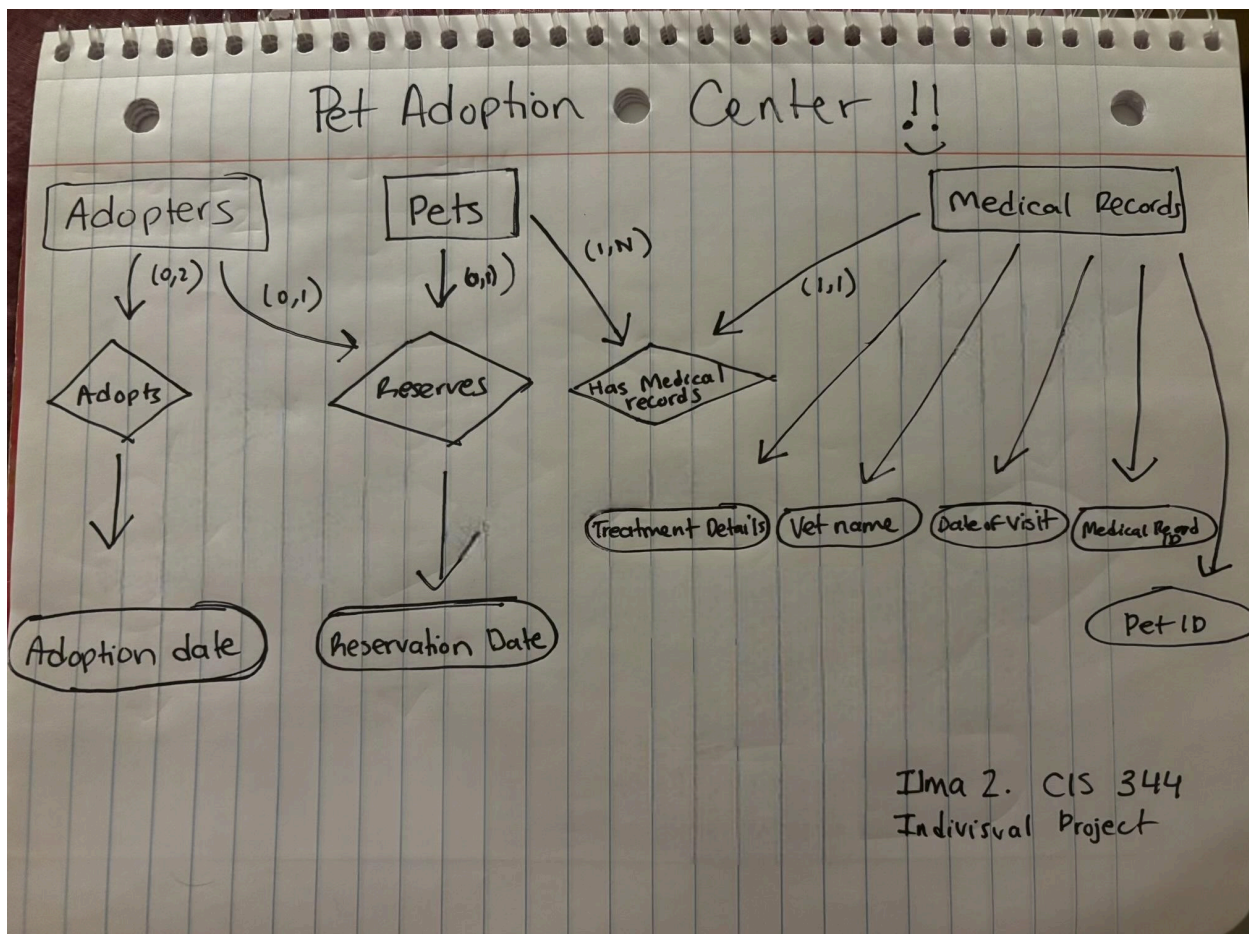
c. Medical Records (between Pets and Medical History)

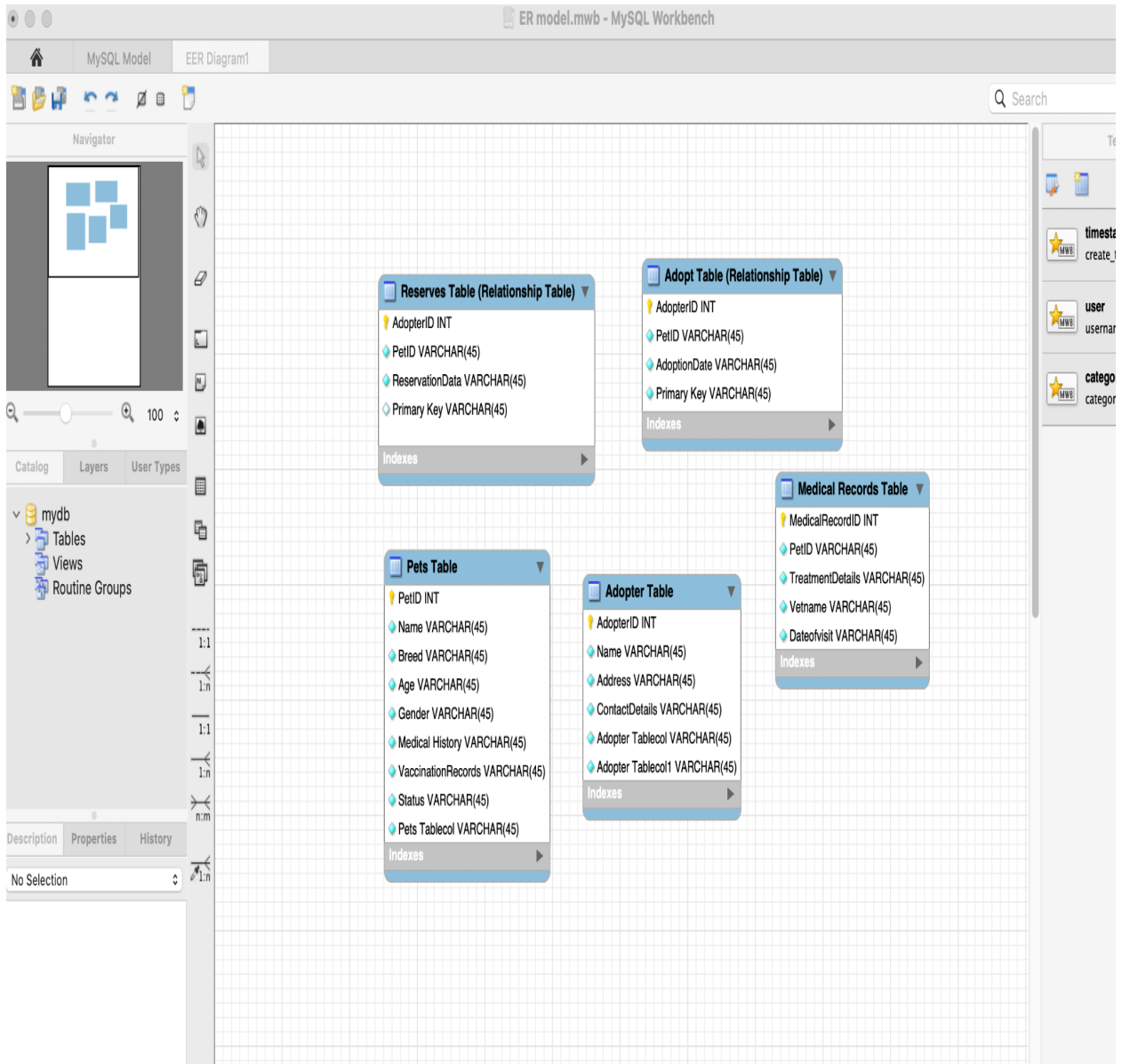
- **Cardinality:**

- Each pet has **at least one medical record**, but some may have multiple.
- Each medical record is associated with **one specific pet**.
- **Attributes:**
 - Medical Record ID (Primary Key, String)
 - Pet ID (Foreign Key)
 - Treatment Details (Text)
 - Vet Name (String)
 - Date of Visit (Date)

ER Diagram Structure (Chen Style)

1. **Entities:** Pets, Adopters, Medical Records
2. **Attributes:** Listed within ovals and connected to their respective entities.
3. **Relationships:**
 - **Adopts:** Connects *Adopters* and *Pets*.
 - **Reserves:** Connects *Adopters* and *Pets*.
 - **Has Medical Records:** Connects *Pets* and *Medical Records*.
4. **Cardinality Constraints:**
 - Adopters can adopt **up to 2 pets**.
 - Adopters can reserve **1 pet at a time**.
 - Each pet can have **multiple medical records**.





```
CREATE DATABASE IF NOT EXISTS PetAdoptionDB;
USE PetAdoptionDB;
```

```
-- Create Table: Pets
```

```
CREATE TABLE Pets (
    PetID VARCHAR(50) PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    Breed VARCHAR(100),
    Age INT,
    Gender ENUM('Male', 'Female'),
    Status ENUM('Available', 'Adopted', 'In Foster Care', 'Under Medical Treatment') DEFAULT
    'Available'
);
```

```
-- Create Table: Adopters
```

```
CREATE TABLE Adopters (
    AdopterID VARCHAR(50) PRIMARY KEY,
    Name VARCHAR(100) NOT NULL,
    ContactDetails VARCHAR(100)
);
```

```
-- Create Table: Adoptions
```

```
CREATE TABLE Adoptions (
    AdopterID VARCHAR(50),
    PetID VARCHAR(50),
    AdoptionDate DATE,
    PRIMARY KEY (AdopterID, PetID),
    FOREIGN KEY (AdopterID) REFERENCES Adopters(AdopterID) ON DELETE CASCADE,
    FOREIGN KEY (PetID) REFERENCES Pets(PetID) ON DELETE CASCADE
);
```

```
-- Create Table: Reservations
```

```
CREATE TABLE Reservations (
    AdopterID VARCHAR(50),
    PetID VARCHAR(50),
    ReservationDate DATE,
    PRIMARY KEY (AdopterID, PetID),
    FOREIGN KEY (AdopterID) REFERENCES Adopters(AdopterID) ON DELETE CASCADE,
    FOREIGN KEY (PetID) REFERENCES Pets(PetID) ON DELETE CASCADE
);
```

```
-- Create Table: MedicalRecords
```

```
CREATE TABLE MedicalRecords (
```

```
RecordID VARCHAR(50) PRIMARY KEY,  
PetID VARCHAR(50),  
TreatmentDetails TEXT,  
DateOfVisit DATE,  
FOREIGN KEY (PetID) REFERENCES Pets(PetID) ON DELETE CASCADE  
);
```

```
-- Insert sample data into Pets  
INSERT INTO Pets (PetID, Name, Breed, Age, Gender)  
VALUES  
('P001', 'Bella', 'Golden Retriever', 3, 'Female'),  
('P002', 'Max', 'Bulldog', 5, 'Male');
```

```
-- Insert sample data into Adopters  
INSERT INTO Adopters (AdopterID, Name, ContactDetails)  
VALUES  
('A001', 'John Doe', '555-1234'),  
('A002', 'Jane Smith', '555-5678');
```

```
-- Insert sample data into Adoptions  
INSERT INTO Adoptions (AdopterID, PetID, AdoptionDate)  
VALUES  
('A001', 'P001', '2025-03-01');
```

```
-- Insert sample data into Reservations  
INSERT INTO Reservations (AdopterID, PetID, ReservationDate)  
VALUES  
('A002', 'P002', '2025-03-02');
```

```
-- Insert sample data into MedicalRecords  
INSERT INTO MedicalRecords (RecordID, PetID, TreatmentDetails, DateOfVisit)  
VALUES  
('MR001', 'P001', 'Routine check-up; no issues.', '2025-02-15');
```