

INFO 4707

Data Modeling and Data Warehousing

**Pet Matrix Database Management
System**

Project Team:

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Project Overview:

The Pet Matrix Database Management System is designed to optimize the management of a single pet clinic. As an integrated platform, Pet Matrix effectively addresses a range of critical elements essential for the successful operation of the clinic.

Key components include tracking veterinarians' credentials, schedules, and specializations; managing employee information, including roles and schedules; maintaining an up-to-date inventory of medical supplies and medications; organizing comprehensive patient records to ensure continuity of care; and facilitating client interactions by managing appointment scheduling, communications, and feedback.

By developing a comprehensive database that incorporates these elements, Pet Matrix aims to enhance organization and efficiency within the clinic, streamline daily operations, and support informed decision-making, ultimately leading to improved patient care and enhanced clinic performance.

Project Scope:

The scope of the Pet Matrix Database Management System encompasses several key areas aimed at optimizing the management of a single pet clinic. It includes developing a module for tracking veterinarians' credentials, schedules, and specializations. Additionally, a comprehensive employee management database will store staff roles, contact details, and attendance.

The system will feature inventory management to maintain up-to-date records of medical supplies and medications, with alerts for low stock and expiration dates. A patient record management system will be created to store medical histories, treatment plans, ensuring easy access to vital information.

For client interactions, a scheduling system will facilitate appointment bookings and rescheduling, while communication features will allow for sending reminders and gathering client feedback.

By addressing these areas, the Pet Matrix Database Management System aims to improve operational efficiency and enhance patient care within the clinic.

RDBMS:

MS SQL Server

Benefits:

1. Simple setup and installation process
2. Open-source community and cost-effective
3. Handle large databases and process data quickly

User Requirements:

- Track employee roles, contact information, and work schedules.
- Record pet details, including name, species, breed, age, and medical history.
- Track appointment details, including date, time, purpose, and any assisting staff members.
- Enable assignment of specializations to veterinarians for accurate treatment matching.
- Documentation of prescribed medications, including dosages, frequency, and administration routes.
- Ensure data integrity by enforcing required fields and valid relationships between entities.

Business Rules:

- Each pet must have an assigned owner.
- Treatment records for a pet are linked to specific appointments.
- Each appointment must be associated with one pet.
- Each appointment must have an assigned veterinarian.
- Appointments can include an assistant employee.
- An appointment may generate one or more treatment records that document the treatments provided.
- Each appointment can have one or more billing entries, recording services, medications, and other fees.
- A veterinarian can have multiple appointments with different patients.
- A specialization can apply to multiple veterinarians.
- Each treatment record is linked to a specific appointment.

Tables (& Data Types):

1. Owners

Attributes:

 ownerId - INT
 firstName – VARCHAR(50)
 lastName – VARCHAR(50)
 home_address – VARCHAR(50)
 phoneNumber – VARCHAR(20)
 email – VARCHAR(100)

2. Patients

Attributes:

 patientId - INT
 firstName – VARCHAR(50)
 lastName – VARCHAR(50)
 age – INT
 species – VARCHAR(30)
 breed – VARCHAR(30)
 gender – VARCHAR(10)
 ownerId - INT

3. Employees

Attributes:

 employeeId - INT
 firstName – VARCHAR(50)
 lastName – VARCHAR(50)
 type_role – VARCHAR(30)
 phoneNumber – VARCHAR(20)
 email – VARCHAR(100)

4. Specializations

Attributes:

 specializationId - INT
 specializationName – VARCHAR(50)

5. Veterinarians

Attributes:

veterinarianId - INT
firstName – VARCHAR(50)
lastName – VARCHAR(50)
phoneNumber - VARCHAR(20)
email – VARCHAR(100)
specializationId - INT

6. Appointments

Attributes:

appointmentId - INT
date_ - VARCHAR (50)
time_ - VARCHAR (50)
purpose – VARCHAR (20)
patientId - INT
veterinarianId - INT
employeeId - INT

7. Billings

Attributes:

billingId - INT
totalAmount – DECIMAL(10, 2)
paymentStatus – VARCHAR(20)
paymentMethod – VARCHAR(20)
billingDate - DATE
appointmentId - INT

8. Medications

Attributes:

medicationId - INT
medicationName – VARCHAR(50)
manufacturer – VARCHAR(50)

9. Treatments

Attributes:

treatmentId - INT
treatmentDate - DATE
diagnosis – VARCHAR(100)

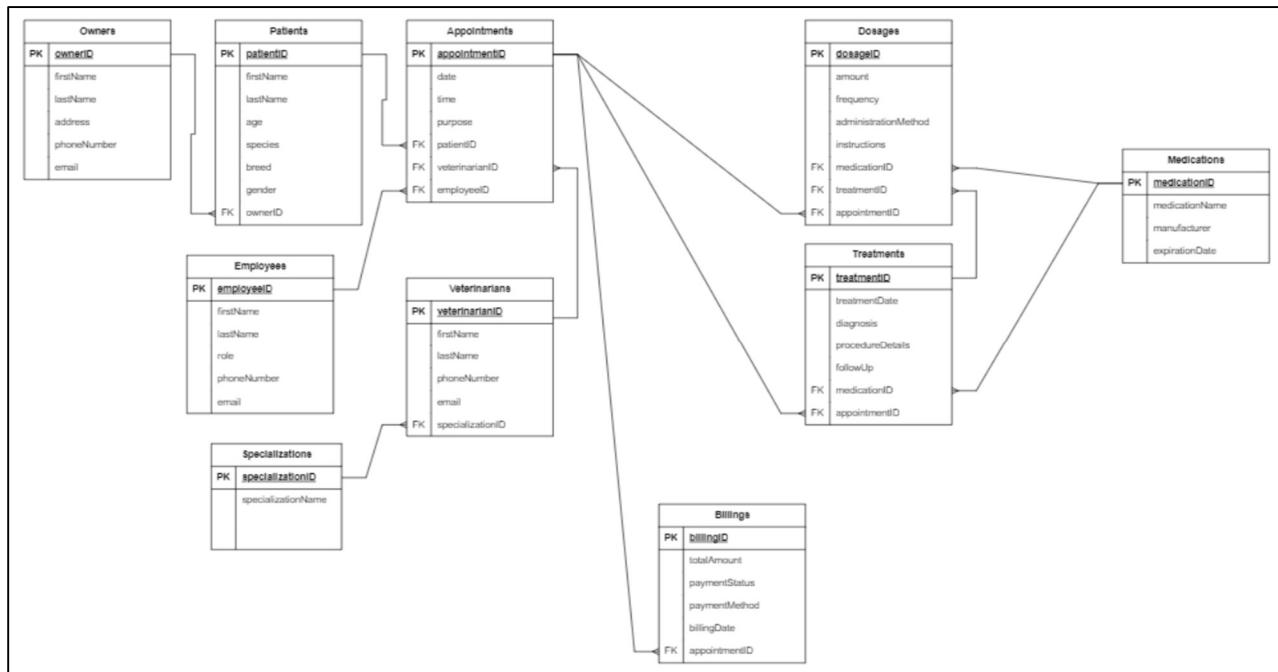
procedureDetails - TEXT
 followUp - DATE
 medicationId - INT
 appointmentId - INT

10. Dosages

Attributes:

dosageId - INT
 amount - DECIMAL(10, 2)
 frequency - VARCHAR(100)
 administrationMethod - VARCHAR(50)
 instructions - TEXT
 medicationId - INT
 treatmentId - INT
 appointmentId - INT

Entity-Relationship Diagram:



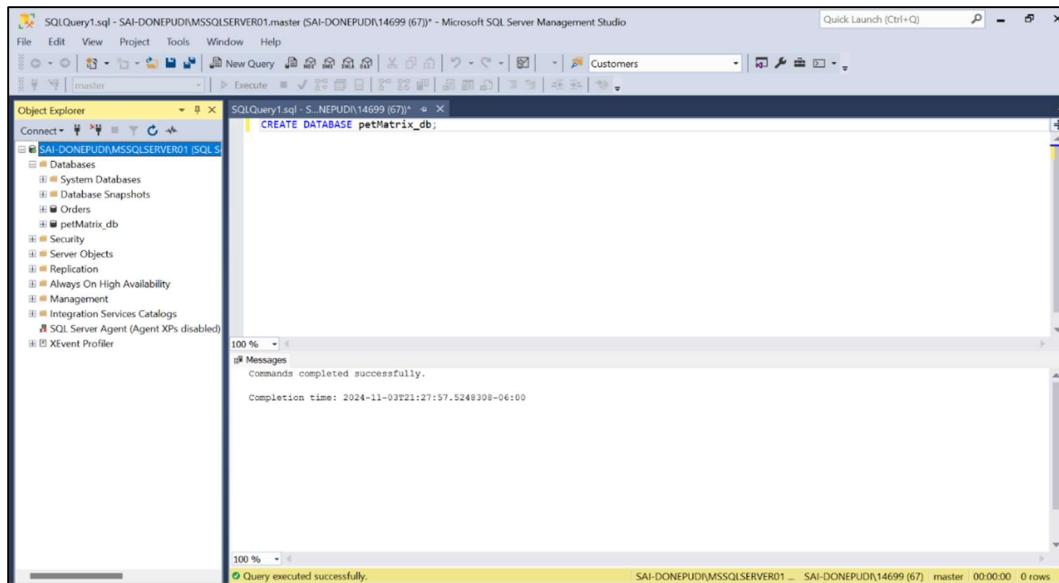
Data Dictionary:

| Table Name | Attributes | Primary Key | Foreign Key |
|------------|------------|-------------|-------------|
| Owners | ownerId | ownerId | |

| | | | |
|-----------------|--|------------------|---|
| | firstName lastName home_address phoneNumber email | | |
| Patients | patientId firstName lastName age species breed gender ownerId | patientId | ownerId |
| Employees | employeeId firstName lastName type_role phoneNumber email | employeeId | |
| Specializations | specializationId specializationName | specializationId | |
| Veterinarians | veterinarianId firstName lastName phoneNumber email specializationId | veterinarianId | specializationId |
| Appointments | appointmentId date_ time_ purpose patientId veterinarianId employeeId | appointmentId | patientId veterinarianId employeeId |
| Billings | billingId totalAmount paymentStatus paymentMethod billingDate appointmentId | billingId | appointmentId |

| | | |
|-------------|---|--|
| Medications | medicationId medicationName manufacturer | medicationId |
| Treatments | treatmentId treatmentDate diagnosis procedureDetails followUp medicationId appointmentId | treatmentId medicationId appointmentId |
| Dosages | dosageId amount frequency administrationMethod instructions medicationId treatmentId appointmentId | dosageId medicationId treatmentId appointmentId |

Data Entry and Update:



The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "SQLQuery1.sql - SAI-DONEPUDI\mssqlserver01.petMatrix_db (SAI-DONEPUDI\14699 (67)* - Microsoft SQL Server Management Studio". The Object Explorer on the left shows the database structure under "SAI-DONEPUDI\mssqlserver01 (SQL Server)". The "Tables" node is expanded, showing "Customers" and "petMatrix_db". The "petMatrix_db" table has a single row with the value "1". The "Messages" pane at the bottom displays the message "Commands completed successfully." and the completion time "2024-11-03T21:28:38.4324513-06:00". The status bar at the bottom right shows "petMatrix.db 0:00:00 0 rows".

Owners

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "SQLQuery1.sql - SAI-DONEPUDI\mssqlserver01.petMatrix_db (SAI-DONEPUDI\14699 (67)* - Microsoft SQL Server Management Studio". The Object Explorer on the left shows the database structure under "SAI-DONEPUDI\mssqlserver01 (SQL Server)". The "Tables" node is expanded, showing "dbo.Owners". The "dbo.Owners" table has columns: ownerId (PK, int, not null), firstName (varchar(50)), lastName (varchar(50)), home_address (varchar(50)), phoneNumber (varchar(20)), and email (varchar(100)). The "Messages" pane at the bottom displays the message "Commands completed successfully." and the completion time "2024-11-03T21:46:46.5355701-06:00". The status bar at the bottom right shows "petMatrix.db 0:00:00 0 rows".

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
INSERT INTO Owners (ownerId, firstName, lastName, home_address, phoneNumber, email)
VALUES
(1, 'Sarah', 'Whitmore', '1483 Cedar Ln, Houston, TX 77002', '(832) 555-0163', 'sarah.whitmore@email.com'),
(2, 'James', 'Holloway', '2910 Sunset Blvd, San Antonio, TX 78201', '(210) 555-0289', 'james.holloway@email.com'),
(3, 'Emily', 'Nunez', '623 Maple St, Dallas, TX 75201', '(214) 555-0793', 'emily.nunez@email.com'),
(4, 'Robert', 'Blackwood', '4805 Oak Hill Dr, Austin, TX 78701', '(512) 555-0914', 'robert.blackwood@email.com'),
(5, 'Lisa', 'Kent', '318 Cherry Ln, Fort Worth, TX 76102', '(682) 555-0137', 'lisa.kent@email.com'),
(6, 'Thomas', 'Ortega', '1920 North St, El Paso, TX 79901', '(915) 555-0348', 'thomas.ortega@email.com'),
(7, 'Megan', 'Sanchez', '5508 Hillcrest Dr, Arlington, TX 76010', '(817) 555-0841', 'megan.sanchez@email.com'),
(8, 'Daniel', 'Choi', '7309 Willow Rd, Plano, TX 75023', '(972) 555-0765', 'daniel.choi@email.com'),
(9, 'Sophia', 'Huang', '847 Red Maple Ave, Irving, TX 75039', '(469) 555-0239', 'sophia.huang@email.com'),
(10, 'Anthony', 'Rivera', '2621 Main St, Corpus Christi, TX 78401', '(361) 555-0462', 'anthony.rivera@email.com'),
(11, 'Jessica', 'Bryant', '1034 Sunrise Dr, Lubbock, TX 79401', '(806) 555-0398', 'jessica.bryant@email.com'),
(12, 'Mark', 'Patel', '415 Cedar Ln, Frisco, TX 75034', '(214) 555-0982', 'mark.patel@email.com'),
(13, 'Olivia', 'Rogers', '2273 Elmwood Rd, Amarillo, TX 79101', '(806) 555-0724', 'olivia.rogers@email.com'),
(14, 'Chris', 'Novak', '3498 Brookside Ave, McAllen, TX 78501', '(956) 555-0667', 'chris.novak@email.com'),
(15, 'Amanda', 'Clarke', '5431 Oakwood Dr, Waco, TX 76701', '(254) 555-0159', 'amanda.clarke@email.com')

```

100 %

Messages

(15 rows affected)

Completion time: 2024-11-06T16:14:28.7871701-06:00

100 %

Query executed successfully.

Patients

SQLQuery2.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (59)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
CREATE TABLE Patients (
    patientId INT NOT NULL PRIMARY KEY,
    firstName VARCHAR(50),
    lastName VARCHAR(50),
    age INT,
    species VARCHAR(30),
    breed VARCHAR(30),
    gender VARCHAR(10),
    ownerId INT,
    FOREIGN KEY (ownerId) REFERENCES Owners(ownerId)
);

```

100 %

Messages

Commands completed successfully.

Completion time: 2024-11-03T22:03:30.1639779-06:00

100 %

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
INSERT INTO Patients (patientId, firstName, lastName, age, species, breed, gender, ownerId)
VALUES
(1, 'Winston', 'Whitmore', 3, 'Canine', 'Golden retriever', 'Male', 1),
(2, 'Chevy', 'Holloway', 5, 'Canine', 'Soft coated wheaten', 'Male', 2),
(3, 'Cooper', 'Nunez', 8, 'Canine', 'Poodle', 'Male', 3),
(4, 'Wooli', 'Blackwood', 1, 'Feline', 'American shorthair', 'Female', 4),
(5, 'Pumpkin', 'Kent', 10, 'Canine', 'Poodle', 'Female', 5),
(6, 'Whiskers', 'Ortega', 3, 'Feline', 'Maine coon', 'Female', 6),
(7, 'Luna', 'Sanchez', 2, 'Feline', 'Siamese', 'Female', 7),
(8, 'Mittens', 'Choi', 5, 'Feline', 'British shorthair', 'Female', 8),
(9, 'Oliver', 'Huang', 1, 'Feline', 'Ragdoll', 'Male', 9),
(10, 'Felix', 'Rivera', 7, 'Feline', 'American shorthair', 'Male', 10),
(11, 'Bella', 'Bryant', 4, 'Canine', 'Labrador retriever', 'Female', 11),
(12, 'Rocky', 'Patel', 6, 'Canine', 'German shepherd', 'Male', 12),
(13, 'Daisy', 'Rogers', 3, 'Canine', 'Beagle', 'Female', 13),
(14, 'Max', 'Novak', 2, 'Canine', 'Golden retriever', 'Male', 14),
(15, 'Coco', 'Clarke', 5, 'Canine', 'French bulldog', 'Female', 15),
(16, 'Sunny', 'Nunez', 1, 'Feline', 'Maine Coon', 'Male', 3);

```

(16 rows affected)

Completion time: 2024-11-06T16:40:03.3735633-06:00

100 %

Query executed successfully.

Employees

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (58)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
CREATE TABLE Employees (
    employeeId INT NOT NULL PRIMARY KEY,
    firstName VARCHAR(50),
    lastName VARCHAR(50),
    type_role VARCHAR(30),
    phoneNumber VARCHAR(20),
    email VARCHAR(100)
);

```

Commands completed successfully.

Completion time: 2024-11-03T22:10:01.0979564-06:00

100 %

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
INSERT INTO Employees (employeeId, firstName, lastName, type_role, phoneNumber, email)
VALUES
(1, 'Emma', 'Collins', 'Vet tech', '(713) 555-0345', 'emma.collins@email.com'),
(2, 'Ethan', 'Morris', 'Vet tech', '(210) 555-0678', 'ethan.morris@email.com'),
(3, 'Isabella', 'Kim', 'Vet tech', '(214) 555-0890', 'isabella.kim@email.com'),
(4, 'Julian', 'Hayes', 'Vet tech', '(469) 555-0102', 'julian.hayes@email.com'),
(5, 'Samantha', 'Lee', 'Vet tech', '(830) 555-0321', 'samantha.lee@email.com'),
(6, 'Matthew', 'Rogers', 'Vet tech', '(956) 555-0587', 'matthew.rogers@email.com'),
(7, 'Gracie', 'Simmons', 'Vet tech', '(972) 555-0213', 'gracie.simmons@email.com'),
(8, 'Aaron', 'Brooks', 'Vet tech', '(915) 555-0774', 'aaron.brooks@email.com'),
(9, 'Lucy', 'Bennett', 'Vet tech', '(817) 555-0689', 'lucy.bennett@email.com'),
(10, 'Nathan', 'Perez', 'Receptionist', '(361) 555-0392', 'nathan.perez@email.com'),
(11, 'Zoe', 'Watson', 'Receptionist', '(254) 555-0834', 'zoe.watson@email.com');

```

100 %

Messages

(11 rows affected)

Completion time: 2024-11-06T17:24:35.9834426-06:00

100 %

Query executed successfully.

Specializations

SQLQuery4.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (60)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
CREATE TABLE Specializations (
    specializationId INT NOT NULL PRIMARY KEY,
    specializationName VARCHAR(50)
);

```

100 %

Messages

Commands completed successfully.

Completion time: 2024-11-03T22:13:52.2512807-06:00

100 %

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q) Customers

petMatrix_db

Object Explorer

Connect

SAI-DONEPUDI\MSSQLSERVER01 (SQL Server)

Databases System Databases Database Snapshots Orders petMatrix_db Database Diagrams Tables System Tables FileTables External Tables Graph Tables dbo.Appointments dbo.Billings dbo.Dosages dbo.Employees dbo.Medications dbo.Owners dbo.Patients dbo.Specializations dbo.Treatments dbo.Veterinarians Views External Resources Synonyms Programmability Query Store Service Broker

SQLQuery1.sql - S..NEPUDI\14699 (64)*

```
USE petMatrix_db;
INSERT INTO Specializations (specializationId, specializationName)
VALUES
(1, 'General medicine'),
(2, 'Surgery'),
(3, 'Dentistry'),
(4, 'Critical care');
```

100 % Messages (4 rows affected)

Completion time: 2024-11-06T17:29:32.7211402-06:00

100 % Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 0 rows

Veterinarians

SQLQuery5.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (71)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q) Customers

petMatrix_db

Object Explorer

Connect

SAI-DONEPUDI\MSSQLSERVER01 (SQL Server)

Databases System Databases Database Snapshots Orders petMatrix_db Database Diagrams Tables System Tables FileTables External Tables Graph Tables dbo.Employees dbo.Owners dbo.Patients dbo.Specializations dbo.Veterinarians Views External Resources Synonyms Programmability Query Store Service Broker Storage Security Server Objects Replication

SQLQuery5.sql - S..NEPUDI\14699 (71)*

SQLQuery3.sql - S..NEPUDI\14699 (58)*

SQLQuery2.sql - S..NEPUDI\14699 (59)*

```
USE petMatrix_db;
CREATE TABLE Veterinarians (
    veterinarianId INT NOT NULL PRIMARY KEY,
    firstName VARCHAR(50),
    lastName VARCHAR(50),
    phoneNumber VARCHAR(20),
    email VARCHAR(100),
    specializationId INT,
    FOREIGN KEY (specializationId) REFERENCES Specializations(specializationId)
);
```

100 % Messages Commands completed successfully.

Completion time: 2024-11-03T22:21:41.4440862-06:00

100 % Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (71) petMatrix_db 00:00:00 0 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
INSERT INTO Veterinarians(veterinarianId, firstName, lastName, phoneNumber, email, specializationId)
VALUES
(1, 'Allison', 'Pierce', '(325) 555-0123', 'allison.pierce@email.com', 1),
(2, 'Victor', 'Chang', '(432) 555-0456', 'victor.chang@email.com', 4),
(3, 'Monica', 'Reed', '(210) 555-0789', 'monica.reed@email.com', 2),
(4, 'Bradley', 'Fisher', '(903) 555-0921', 'bradley.fisher@email.com', 3),
(5, 'Sam', 'Tim', '(468) 128-3958', 'sam.tim@email.com', 4),
(6, 'Manny', 'Song', '(753) 094-5694', 'manny.song@email.com', 2);

```

(6 rows affected)

Completion time: 2024-11-06T17:40:10.8973423-06:00

Query executed successfully.

Appointments

SQLQuery6.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (63)) - Microsoft SQL Server Management Studio

SQLQuery5.sql - S...NEPUDI\14699 (71)) - Microsoft SQL Server Management Studio

SQLQuery3.sql - S...NEPUDI\14699 (58)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
CREATE TABLE Appointments (
    appointmentId INT NOT NULL PRIMARY KEY,
    date_ VARCHAR(50),
    time_ VARCHAR(50),
    purpose VARCHAR(20),
    patientId INT,
    veterinarianId INT,
    employeeId INT,
    FOREIGN KEY (patientId) REFERENCES Patients(patientId),
    FOREIGN KEY (veterinarianId) REFERENCES Veterinarians(veterinarianId),
    FOREIGN KEY (employeeId) REFERENCES Employees(employeeId)
);

```

Commands completed successfully.

Completion time: 2024-11-03T22:34:20.1745127-06:00

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
INSERT INTO Appointments (appointmentId, date_, time_, purpose, patientId, veterinarianId, employeeId)
VALUES
(1, '2024-01-15', '09:00 am', 'annual checkup', 1, 1, 3),
(2, '2024-02-10', '10:30 am', 'vaccination', 3, 1, 2),
(3, '2024-03-05', '11:30 am', 'dental cleaning', 2, 4, 1),
(4, '2024-03-15', '2:00 pm', 'surgery', 4, 3, 8),
(5, '2024-04-12', '9:00 am', 'emergency care', 3, 2, 7),
(6, '2024-05-01', '4:30 pm', 'follow-up', 1, 5),
(7, '2024-06-07', '6:00 pm', 'critical help', 16, 5, 7),
(8, '2024-12-01', '10:00 pm', 'broken leg', 11, 2, 9);

```

(8 rows affected)

Completion time: 2024-11-07T18:55:07.0767948-06:00

Query executed successfully.

Billings

SQLQuery7.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (72)) - Microsoft SQL Server Management Studio

```

USE petMatrix_db;
CREATE TABLE Billings (
    billingId INT NOT NULL PRIMARY KEY,
    totalAmount DECIMAL(18, 2) NOT NULL,
    paymentStatus VARCHAR(28) NOT NULL CHECK (paymentStatus IN ('Paid', 'Unpaid', 'Pending')),
    paymentMethod VARCHAR(28) CHECK (paymentMethod IN ('Credit Card', 'Debit Card', 'Cash', 'Insurance', 'Online Transfer')),
    billingDate DATE DEFAULT GETDATE(),
    appointmentId INT NOT NULL,
    FOREIGN KEY (appointmentId) REFERENCES Appointments(appointmentId)
);

```

Commands completed successfully.

Completion time: 2024-11-03T22:41:56.2328557-06:00

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect Connect...

SQLQuery3.sql - S..NEPUDI\14699 (65)*

```
USE petMatrix_db;
INSERT INTO Billings (billingId, totalAmount, paymentStatus, paymentMethod, billingDate, appointmentId)
VALUES
(2, 60.00, 'Pending', 'Credit Card', '2024-02-10', 2),
(3, 120.00, 'Paid', 'Debit Card', '2024-03-05', 3),
(4, 500.00, 'Paid', 'Credit Card', '2024-03-15', 4),
(5, 300.00, 'Pending', 'Insurance', '2024-04-12', 5),
(6, 75.00, 'Paid', 'Cash', '2024-05-01', 6),
(7, 55.00, 'Paid', 'Credit Card', '2024-06-07', 7),
(8, 80.00, 'Paid', 'Online Transfer', '2024-12-01', 8);
```

100 % Messages (7 rows affected)

Completion time: 2024-11-07T19:19:01.3907635-06:00

100 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (52) petMatrix db 00:00:00 0 rows

Medications

SQLQuery8.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (62)) - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect Connect...

SQLQuery8.sql - S..NEPUDI\14699 (62)*

```
USE petMatrix_db;
CREATE TABLE Medications (
    medicationId INT NOT NULL PRIMARY KEY,
    medicationName VARCHAR(50) NOT NULL,
    manufacturer VARCHAR(50) NOT NULL,
);
```

100 % Messages Commands completed successfully.

Completion time: 2024-11-03T22:47:33.1007883-06:00

100 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (62) petMatrix db 00:00:00 0 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

```
USE petMatrix_db;
INSERT INTO Medications(medicationId, medicationName, manufacturer)
VALUES
(1, 'Amoxicillin', 'Pfizer'),
(2, 'Prednisone', 'Bayern'),
(3, 'Metacam', 'Boehringer Ingelheim'),
(4, 'Apoquel', 'Zoetis'),
(5, 'Rimadyl', 'Zoetis'),
(6, 'Heartgard', 'Merial'),
(7, 'Trifexis', 'Elanco'),
(8, 'Revolution', 'Zoetis'),
(9, 'Frontline', 'Merial'),
(10, 'NexGard', 'Merial'),
(11, 'Prozac', 'Lilly'),
(12, 'Cerenia', 'Zoetis'),
(13, 'Proin', 'PRN Pharmacal'),
(14, 'Vetoryl', 'Dechra'),
(15, 'Enalapril', 'Pfizer');
```

(15 rows affected)

Completion time: 2024-11-07T19:31:21.9932898-06:00

Query executed successfully.

Treatments

SQLQuery9.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (78)) - Microsoft SQL Server Management Studio

```
USE petMatrix_db;
CREATE TABLE Treatments (
    treatmentId INT NOT NULL PRIMARY KEY,
    treatmentDate DATE NOT NULL,
    diagnosis VARCHAR(100) NOT NULL,
    procedureDetails TEXT,
    followUp DATE,
    medicationId INT,
    appointmentId INT NOT NULL,
    FOREIGN KEY (medicationId) REFERENCES Medications(medicationId),
    FOREIGN KEY (appointmentId) REFERENCES Appointments(appointmentId)
);
```

Commands completed successfully.

Completion time: 2024-11-03T22:56:33.4308449-06:00

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery3.sql - S..NEPUDI\14699 (55)*

```
USE petMatrix_db;
INSERT INTO Treatments (treatmentId, treatmentDate, diagnosis, procedureDetails, followUp, medicationId, appointmentId)
VALUES
(1, '2024-01-15', 'Routine Checkup', 'Comprehensive health assessment, including bloodwork and dental check', '2025-01-22', 1, 1),
(2, '2024-02-10', 'Vaccination', 'Administered annual rabies and distemper vaccines', '2024-03-10', 5, 2),
(3, '2024-03-05', 'Dental Plaque', 'Performed professional teeth cleaning and plaque removal', '2024-06-05', 2, 3),
(4, '2024-03-15', 'Tumor Removal', 'Surgical excision of benign mass, followed by biopsy analysis', '2024-04-15', 10, 4),
(5, '2024-04-12', 'Fracture', 'Stabilized limb with a cast and provided pain relief medication', '2024-05-12', 11, 5),
(6, '2024-05-01', 'Routine Checkup', 'Updated vaccines, checked heart rate, and performed lab tests', '2024-08-01', 7, 6),
(7, '2024-06-07', 'Parasitic Infection', 'Administered deworming treatment and prescribed follow-up medication', '2024-09-07', 9, 7),
(8, '2024-07-20', 'Broken Leg', 'Applied cast, provided anti-inflammatory medication, and scheduled X-ray', '2024-08-20', 11, 8);
```

Messages

(8 rows affected)

Completion time: 2024-11-07T20:02:06.2411689-06:00

91 %

91 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (52) petMatrix db 00:00:00 0 rows

Dosages

SQLQuery10.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (77)) - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery10.sql - NEPUDI\14699 (77)*

```
USE petMatrix_db;
CREATE TABLE Dosages (
    dosageId INT NOT NULL PRIMARY KEY,
    amount DECIMAL(10, 2) NOT NULL,
    frequency VARCHAR(100) NOT NULL,
    administrationMethod VARCHAR(50) NOT NULL CHECK (administrationMethod IN ('oral', 'injection', 'topical', 'intravenous')),
    instructions TEXT,
    medicationId INT NOT NULL,
    treatmentId INT NOT NULL,
    appointmentId INT NOT NULL,
    FOREIGN KEY (medicationId) REFERENCES Medications(medicationId),
    FOREIGN KEY (treatmentId) REFERENCES Treatments(treatmentId),
    FOREIGN KEY (appointmentId) REFERENCES Appointments(appointmentId)
);
```

Messages

Commands completed successfully.

Completion time: 2024-11-03T23:05:51.5831447-06:00

100 %

100 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (77) petMatrix db 00:00:00 0 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

Object Explorer

Connect petMatrix_db

SQLQuery3.sql - S..NEPUDI(14699 (55))* SQLQuery1.sql - S..NEPUDI(14699 (52))*

```
USE petMatrix_db;
INSERT INTO Dosages (dosageId, amount, frequency, administrationMethod, instructions, medicationId, treatmentId, appointmentId)
VALUES
(1, 250.0, 'Twice a day', 'oral', 'Administer after meals with water', 1, 1, 1),
(2, 500.56, 'Once a day', 'injection', 'Inject subcutaneously; monitor for allergic reactions', 5, 2, 2),
(3, 5.578, 'Three times a day', 'topical', 'Apply on affected area; avoid contact with eyes', 2, 3, 3),
(4, 1.0, 'Once every two weeks', 'oral', 'Give with food to prevent stomach upset', 10, 4, 4),
(5, 10.98, 'Once a day', 'oral', 'Administer in the morning; can be mixed with food', 11, 5, 5),
(6, 2.65, 'Twice a day', 'oral', 'Administer directly into the ear canal', 7, 6, 6),
(7, 100.09, 'Once every three days', 'intravenous', 'Administer slowly over 5 minutes', 9, 7, 7),
(8, 0.5, 'Once a month', 'injection', 'Use a sterile needle and syringe', 11, 8, 8);
```

91 % Messages (0 rows affected)

Completion time: 2024-11-07 21:24:26.2218771-06:00

91 % Results 0 rows affected.

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (52) petMatrix_db 00:00:00 0 rows

Data Retrieval:

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

Object Explorer

Connect petMatrix_db

SQLQuery1.sql - S..NEPUDI(14699 (64))*

```
USE petMatrix_db;
SELECT * FROM Owners;
```

100 % Results 15 rows

| | ownerId | firstName | lastName | home_address | phoneNumber | email |
|----|---------|-----------|-----------|---|----------------|----------------------------|
| 1 | 1 | Sarah | Whitmore | 1483 Cedar Ln, Houston, TX 77002 | (832) 555-0163 | sarah.whitmore@email.com |
| 2 | 2 | James | Holloway | 2910 Sunset Blvd, San Antonio, TX 78201 | (210) 555-0289 | james.holloway@email.com |
| 3 | 3 | Emily | Nunez | 623 Maple St, Dallas, TX 75201 | (214) 555-0793 | emily.nunez@email.com |
| 4 | 4 | Robert | Blackwood | 4805 Oak Hill Dr, Austin, TX 78701 | (512) 555-0914 | robert.blackwood@email.com |
| 5 | 5 | Lisa | Kent | 318 Cherry Ln, Fort Worth, TX 76102 | (862) 555-0137 | lis.kent@email.com |
| 6 | 6 | Thomas | Ortega | 1920 North St, El Paso, TX 79901 | (915) 555-0348 | thomas.ortega@email.com |
| 7 | 7 | Megan | Sanchez | 5508 Hillcrest Dr, Arlington, TX 76010 | (817) 555-0841 | megan.sanchez@email.com |
| 8 | 8 | Daniel | Choi | 7309 Willow Rd, Plano, TX 75023 | (972) 555-0765 | daniel.choi@email.com |
| 9 | 9 | Sophia | Huang | 847 Red Maple Ave, Irving, TX 75039 | (469) 555-0239 | sophia.huang@email.com |
| 10 | 10 | Anthony | Rivera | 2621 Main St, Corpus Christi, TX, 78401 | (361) 555-0462 | anthony.rivera@email.com |
| 11 | 11 | Jessica | Bryant | 1034 Sunrise Dr, Lubbock, TX 79401 | (806) 555-0398 | jessica.bryant@email.com |
| 12 | 12 | Mark | Patel | 415 Cedar Ln, Frisco, TX 75034 | (214) 555-0982 | mark.patel@email.com |
| 13 | 13 | Olivia | Rogers | 2273 Elmwood Rd, Amarillo, TX 79101 | (806) 555-0724 | olivia.rogers@email.com |
| 14 | 14 | Chris | Novak | 3498 Brookside Ave, McAllen, TX 78501 | (956) 555-0667 | chris.novak@email.com |
| 15 | 15 | Amanda | Clarke | 5431 Oakwood Dr, Waco, TX 76701 | (254) 555-0159 | amanda.clarke@email.com |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 15 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery1.sql - S..NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT * FROM Patients;
```

Results Messages

| | patientId | firstName | lastName | age | species | breed | gender | ownerId |
|----|-----------|-----------|-----------|-----|---------|---------------------|--------|---------|
| 1 | 1 | Winston | Whitmore | 3 | Canine | Golden retriever | Male | 1 |
| 2 | 2 | Chewy | Holloway | 5 | Canine | Soft coated wheaten | Male | 2 |
| 3 | 3 | Cooper | Nunez | 8 | Canine | Poodle | Male | 3 |
| 4 | 4 | Woolly | Blackwood | 1 | Feline | American shorthair | Female | 4 |
| 5 | 5 | Pumpkin | Kent | 10 | Canine | Poodle | Female | 5 |
| 6 | 6 | Whiskers | Ortega | 3 | Feline | Maine coon | Female | 6 |
| 7 | 7 | Luna | Sanchez | 2 | Feline | Siamese | Female | 7 |
| 8 | 8 | Mittens | Choi | 5 | Feline | British shorthair | Female | 8 |
| 9 | 9 | Oliver | Huang | 1 | Feline | Ragdoll | Male | 9 |
| 10 | 10 | Felix | Rivera | 7 | Feline | American shorthair | Male | 10 |
| 11 | 11 | Bella | Bryant | 4 | Canine | Labrador retriever | Female | 11 |
| 12 | 12 | Rocky | Patel | 6 | Canine | German shepherd | Male | 12 |
| 13 | 13 | Daisy | Rogers | 3 | Canine | Beagle | Female | 13 |
| 14 | 14 | Max | Novak | 2 | Canine | Golden retriever | Male | 14 |
| 15 | 15 | Coco | Clarke | 5 | Canine | French bulldog | Female | 15 |
| 16 | 16 | Sunny | Nunez | 1 | Feline | Maine Coon | Male | 3 |

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery1.sql - S..NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT * FROM Employees;
```

Results Messages

| | employeeId | firstName | lastName | type_role | phoneNumber | email |
|----|------------|-----------|----------|--------------|----------------|--------------------------|
| 1 | 1 | Emma | Collins | Vet tech | (713) 555-0345 | emma.collins@email.com |
| 2 | 2 | Ethan | Morris | Vet tech | (210) 555-0678 | ethan.morris@email.com |
| 3 | 3 | Isabella | Kim | Vet tech | (214) 555-0990 | isabella.kim@email.com |
| 4 | 4 | Julian | Hayes | Vet tech | (469) 555-0102 | julian.hayes@email.com |
| 5 | 5 | Samantha | Lee | Vet tech | (830) 555-0321 | samantha.lee@email.com |
| 6 | 6 | Matthew | Rogers | Vet tech | (956) 555-0587 | matthew.rogers@email.com |
| 7 | 7 | Gracie | Simmons | Vet tech | (972) 555-0213 | gracie.simmons@email.com |
| 8 | 8 | Aaron | Brooks | Vet tech | (915) 555-0774 | aaron.brooks@email.com |
| 9 | 9 | Lucy | Bennett | Vet tech | (817) 555-0689 | lucy.bennett@email.com |
| 10 | 10 | Nathan | Perez | Receptionist | (361) 555-0392 | nathan.perez@email.com |
| 11 | 11 | Zoe | Watson | Receptionist | (254) 555-0834 | zoe.watson@email.com |

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect petMatrix_db

SQLQuery1.sql - S...NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT * FROM Specializations;
```

100 %

Results Messages

| | specializationId | specializationName |
|---|------------------|--------------------|
| 1 | 1 | General medicine |
| 2 | 2 | Surgery |
| 3 | 3 | Dentistry |
| 4 | 4 | Critical care |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 4 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect petMatrix_db

SQLQuery1.sql - S...NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT * FROM Veterinarians;
```

100 %

Results Messages

| | veterinarianId | firstName | lastName | phoneNumber | email | specializationId |
|---|----------------|-----------|----------|----------------|--------------------------|------------------|
| 1 | 1 | Allison | Pierce | (325) 555-0123 | allison.pierce@email.com | 1 |
| 2 | 2 | Victor | Chang | (432) 555-0456 | victor.chang@email.com | 4 |
| 3 | 3 | Monica | Reed | (210) 555-0789 | monica.reed@email.com | 2 |
| 4 | 4 | Bradley | Fisher | (903) 555-0921 | bradley.fisher@email.com | 3 |
| 5 | 5 | Sam | Tim | (460) 128-3956 | sam.tl@email.com | 4 |
| 6 | 6 | Manny | Song | (753) 094-5694 | manny.song@email.com | 2 |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 6 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect | petMatrix_db | Execute | New Query | Quick Launch (Ctrl+Q) | Customers |

Object Explorer

SQLQuery1.sql - S...NEPUDI\14699 (52)*

```
USE petMatrix_db;
SELECT * FROM Appointments;
```

Results Messages

| appointmentId | date | time | purpose | patientId | veterinarianId | employeeId |
|---------------|------------|----------|-----------------|-----------|----------------|------------|
| 1 | 2024-01-15 | 09:00 am | annual checkup | 1 | 1 | 3 |
| 2 | 2024-02-10 | 10:30 am | vaccination | 3 | 1 | 2 |
| 3 | 2024-03-05 | 11:30 am | dental cleaning | 2 | 4 | 1 |
| 4 | 2024-03-15 | 2:00 pm | surgery | 4 | 3 | 8 |
| 5 | 2024-04-12 | 9:00 am | emergency care | 3 | 2 | 7 |
| 6 | 2024-05-01 | 4:30 pm | follow-up | 1 | 1 | 5 |
| 7 | 2024-06-07 | 6:00 pm | critical help | 16 | 5 | 7 |
| 8 | 2024-12-01 | 10:00 pm | broken leg | 11 | 2 | 9 |

Query executed successfully.

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect | petMatrix_db | Execute | New Query | Quick Launch (Ctrl+Q) | Customers |

Object Explorer

SQLQuery3.sql - S...NEPUDI\14699 (55)*

```
SELECT * FROM Billings;
```

Results Messages

| billingId | totalAmount | paymentStatus | paymentMethod | billingDate | appointmentId |
|-----------|-------------|---------------|-----------------|-------------|---------------|
| 1 | 150.00 | Paid | Cash | 2024-01-15 | 1 |
| 2 | 60.00 | Pending | Credit Card | 2024-02-10 | 2 |
| 3 | 120.00 | Paid | Debit Card | 2024-03-05 | 3 |
| 4 | 500.00 | Paid | Credit Card | 2024-03-15 | 4 |
| 5 | 300.00 | Pending | Insurance | 2024-04-12 | 5 |
| 6 | 75.00 | Paid | Cash | 2024-05-01 | 6 |
| 7 | 55.00 | Paid | Credit Card | 2024-06-07 | 7 |
| 8 | 80.00 | Paid | Online Transfer | 2024-12-01 | 8 |

Query executed successfully.

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

Object Explorer

petMatrix_db

SQLQuery3.sql - S...NEPUDI\14699 (55)* SQLQuery1.sql - S...NEPUDI\14699 (52)*

```
SELECT * FROM Medications;
```

| medicationId | medicationName | manufacturer |
|--------------|----------------|----------------------|
| 1 | Axonoxillin | Pfizer |
| 2 | Prednisone | Bayer |
| 3 | Metacan | Boehringer Ingelheim |
| 4 | Apoquel | Zoetis |
| 5 | Rimadyl | Zoetis |
| 6 | Heartgard | Merial |
| 7 | Trihexa | Elanco |
| 8 | Revolution | Zoetis |
| 9 | Frontline | Merial |
| 10 | NexGard | Merial |
| 11 | Prozac | Lilly |
| 12 | Cerenia | Zoetis |
| 13 | Proin | PRN Pharmacal |
| 14 | Vetoryl | Dechra |
| 15 | Enalapril | Pfizer |

Query executed successfully.

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

Object Explorer

petMatrix_db

SQLQuery3.sql - S...NEPUDI\14699 (55)* SQLQuery1.sql - S...NEPUDI\14699 (52)*

```
SELECT * FROM Treatments;
```

| treatmentId | treatmentDate | diagnosis | procedureDetails | followUp | medicationId | appointmentId |
|-------------|---------------|---------------------|---|------------|--------------|---------------|
| 1 | 2024-01-15 | Routine Checkup | Comprehensive health assessment, including blood... | 2025-01-22 | 1 | 1 |
| 2 | 2024-02-10 | Vaccination | Administered annual rabies and distemper vaccines | 2024-03-10 | 5 | 2 |
| 3 | 2024-03-05 | Dental Plaque | Performed professional teeth cleaning and plaque re... | 2024-06-05 | 2 | 3 |
| 4 | 2024-03-15 | Tumor Removal | Surgical excision of benign mass, followed by biopsy ... | 2024-04-15 | 10 | 4 |
| 5 | 2024-04-12 | Fracture | Stabilized limb with a cast and provided pain relief m... | 2024-05-12 | 11 | 5 |
| 6 | 2024-05-01 | Routine Checkup | Updated vaccines, checked heart rate, and performed ... | 2024-08-01 | 7 | 6 |
| 7 | 2024-06-07 | Parasitic Infection | Administered deworming treatment and prescribed f... | 2024-09-07 | 9 | 7 |
| 8 | 2024-07-20 | Broken Leg | Applied cast, provided anti-inflammatory medication, ... | 2024-08-20 | 11 | 8 |

Query executed successfully.

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery3.sql - S..NEPUDI\14699 (55)* SQLQuery1.sql - S..NEPUDI\14699 (52)*

```
SELECT * FROM Dosages;
```

Results Messages

| dosageId | amount | frequency | administrationMethod | instructions | medicationId | treatmentId | appointmentId |
|----------|--------|-----------------------|----------------------|---|--------------|-------------|---------------|
| 1 | 250.00 | Twice a day | oral | Administer after meals with water | 1 | 1 | 1 |
| 2 | 500.56 | Once a day | injection | Inject subcutaneously, monitor for allergic reacti... | 5 | 2 | 2 |
| 3 | 5.58 | Three times a day | topical | Apply on affected area; avoid contact with eyes | 2 | 3 | 3 |
| 4 | 1.00 | Once every two weeks | oral | Give with food to prevent stomach upset | 10 | 4 | 4 |
| 5 | 10.98 | Once a day | oral | Administer in the morning, can be mixed with food | 11 | 5 | 5 |
| 6 | 2.65 | Twice a day | oral | Administer directly into the ear canal | 7 | 6 | 6 |
| 7 | 100.09 | Once every three days | intravenous | Administer slowly over 5 minutes | 9 | 7 | 7 |
| 8 | 0.50 | Once a month | injection | Use a sterile needle and syringe | 11 | 8 | 8 |

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery1.sql - S..NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT * FROM Owners
WHERE firstName LIKE 'A%';
```

Results Messages

| ownerId | firstName | lastName | home_address | phoneNumber | email |
|---------|-----------|----------|---|----------------|--------------------------|
| 10 | Anthony | Rivera | 2621 Main St, Corpus Christi, TX, 78401 | (361) 555-0462 | anthony.rivera@email.com |
| 15 | Amanda | Clarke | 5431 Oakwood Dr, Waco, TX 76701 | (254) 555-0159 | amanda.clarke@email.com |

Query executed successfully.

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect petMatrix_db

SAI-DONEPUDI\MSSQLSERVER01 (SQ

- Databases
 - System Databases
 - Database Snapshots
- Orders
- petMatrix_db
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Appointments
 - dbo.Billings
 - dbo.Dosages
 - dbo.Employees
 - dbo.Medications
 - dbo.Owners
 - dbo.Patients
 - dbo.Specializations
 - dbo.Treatments
 - dbo.Veterinarians
 - Dropped Ledger Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker

SQLQuery1.sql - S..NEPUDI(14699 (64))

```
USE petMatrix_db;
SELECT * FROM Patients
WHERE species = 'Canine' AND (age BETWEEN 2 AND 9);
```

Results Messages

| | patientId | firstName | lastName | age | species | breed | gender | ownerId |
|---|-----------|-----------|----------|-----|---------|---------------------|--------|---------|
| 1 | 1 | Winston | Whitmore | 3 | Canine | Golden retriever | Male | 1 |
| 2 | 2 | Chewy | Holloway | 5 | Canine | Soft coated wheaten | Male | 2 |
| 3 | 3 | Cooper | Nunez | 8 | Canine | Poodle | Male | 3 |
| 4 | 11 | Bella | Bryant | 4 | Canine | Labrador retriever | Female | 11 |
| 5 | 12 | Rocky | Patel | 6 | Canine | German shepherd | Male | 12 |
| 6 | 13 | Daisy | Rogers | 3 | Canine | Beagle | Female | 13 |
| 7 | 14 | Max | Novak | 2 | Canine | Golden retriever | Male | 14 |
| 8 | 15 | Coco | Clarke | 5 | Canine | French bulldog | Female | 15 |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 8 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

Connect petMatrix_db

SAI-DONEPUDI\MSSQLSERVER01 (SQ

- Databases
 - System Databases
 - Database Snapshots
- Orders
- petMatrix_db
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Appointments
 - dbo.Billings
 - dbo.Dosages
 - dbo.Employees
 - dbo.Medications
 - dbo.Owners
 - dbo.Patients
 - dbo.Specializations
 - dbo.Treatments
 - dbo.Veterinarians
 - Dropped Ledger Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Query Store
 - Service Broker

SQLQuery1.sql - S..NEPUDI(14699 (64))

```
USE petMatrix_db;
SELECT Owners.firstName, Owners.lastName, Patients.breed FROM Owners
LEFT JOIN Patients ON Owners.ownerId = Patients.ownerId;
```

Results Messages

| | firstName | lastName | breed |
|----|-----------|-----------|---------------------|
| 1 | Sarah | Whitmore | Golden retriever |
| 2 | James | Holloway | Soft coated wheaten |
| 3 | Emily | Nunez | Poodle |
| 4 | Emily | Nunez | Maine Coon |
| 5 | Robert | Blackwood | American shorthair |
| 6 | Lisa | Kent | Poodle |
| 7 | Thomas | Ortega | Maine coon |
| 8 | Megan | Sanchez | Siamese |
| 9 | Daniel | Choi | British shorthair |
| 10 | Sophia | Huang | Ragdoll |
| 11 | Anthony | Rivera | American shorthair |
| 12 | Jessica | Bryant | Labrador retriever |
| 13 | Mark | Patel | German shepherd |
| 14 | Olivia | Rogers | Beagle |
| 15 | Chris | Novak | Golden retriever |
| 16 | Amanda | Clarke | French bulldog |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 16 rows

SQLQuery1.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

Connect ▾ petMatrix_db

SQLQuery1.sql - S...NEPUDI\14699 (64)*

```
USE petMatrix_db;
SELECT Veterinarians.firstName, Veterinarians.lastName, Specializations.specializationName FROM Specializations
RIGHT JOIN Veterinarians ON Specializations.specializationId = Veterinarians.specializationId;
```

Results Messages

| | firstName | lastName | specializationName |
|---|-----------|----------|--------------------|
| 1 | Allison | Pierce | General medicine |
| 2 | Victor | Chang | Critical care |
| 3 | Monica | Reed | Surgery |
| 4 | Bradley | Fisher | Dentistry |
| 5 | Sam | Tim | Critical care |
| 6 | Manny | Song | Surgery |

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (64) petMatrix_db 00:00:00 6 rows

SQLQuery3.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (55)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Object Explorer

Connect ▾ petMatrix_db

SQLQuery3.sql - S...NEPUDI\14699 (55)*

```
CREATE PROCEDURE getVeterinarians AS
SELECT CONCAT(firstName, ' ', lastName)
FROM Veterinarians;
```

Messages

Commands completed successfully.

Completion time: 2024-11-07 21:36:01.0620568-06:00

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (55) petMatrix_db 00:00:00 0 rows

SQLQuery4.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (51)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery4.sql - S...NEPUDI\14699 (51)* SQLQuery3.sql - S...NEPUDI\14699 (55)*

```
EXECUTE getVeterinarians;
```

Results Messages

| (No column name) |
|------------------|
| 1 Allison Pierce |
| 2 Victor Chang |
| 3 Monica Reed |
| 4 Bradley Fisher |
| 5 Sam Tim |
| 6 Manny Song |

91 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (51) petMatrix_db 00:00:00 6 rows

SQLQuery5.sql - SAI-DONEPUDI\MSSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (51)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery5.sql - S...NEPUDI\14699 (51)*

```
USE petMatrix_db;
```

```
SELECT
    CONCAT(p.firstName, ' ', p.lastName) AS PatientName,
    t.followup AS FollowUp
FROM
    Patients p
JOIN
    Appointments a ON p.patientId = a.patientId
JOIN
    Treatments t ON a.appointmentId = t.appointmentId
ORDER BY
    p.firstName;
```

Results Messages

| PatientName | FollowUp |
|--------------------|------------|
| 1 Bella Bryant | 2024-08-20 |
| 2 Chewy Holloway | 2024-06-05 |
| 3 Cooper Nunez | 2024-03-10 |
| 4 Cooper Nunez | 2024-05-12 |
| 5 Sunny Nunez | 2024-09-07 |
| 6 Winston Whitmore | 2024-08-01 |
| 7 Winston Whitmore | 2025-01-22 |
| 8 Wooli Blackwood | 2024-04-15 |

91 %

Query executed successfully.

SAI-DONEPUDI\MSSQLSERVER01 ... SAI-DONEPUDI\14699 (51) petMatrix_db 00:00:00 8 rows

SQLQuery6.sql - SAI-DONEPUDI\MSQLSERVER01.petMatrix_db (SAI-DONEPUDI\14699 (79)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Customers

petMatrix_db

Object Explorer

SQLQuery6.sql - S..NEPUDI\14699 (79)* SQLQuery5.sql - S..NEPUDI\14699 (51)*

```
USE petMatrix_db;
SELECT
    CONCAT(a.firstName, ' ', a.lastName) AS PatientName,
    (SELECT b.PaymentMethod
     FROM Billings b
     WHERE b.appointmentId = a.appointmentId) AS PaymentMethod,
    (SELECT t.diagnosis
     FROM Treatments t
     WHERE t.appointmentId = a.appointmentId) AS Diagnosis,
    (SELECT t.treatmentDate
     FROM Treatments t
     WHERE t.appointmentId = a.appointmentId) AS TreatmentDate
FROM
    Patients p
JOIN
    Appointments a ON a.patientId = p.patientId
WHERE
    EXISTS (
        SELECT 1
        FROM Billings b
        WHERE b.appointmentId = a.appointmentId
    )
ORDER BY
    PatientName;
```

Results Messages

| | PatientName | PaymentMethod | Diagnosis | TreatmentDate |
|---|------------------|-----------------|---------------------|---------------|
| 1 | Bella Bryant | Online Transfer | Broken Leg | 2024-07-20 |
| 2 | Chewy Holloway | Debit Card | Dental Plaque | 2024-03-05 |
| 3 | Cooper Nunez | Credit Card | Vaccination | 2024-02-10 |
| 4 | Cooper Nunez | Insurance | Fracture | 2024-04-12 |
| 5 | Sunny Nunez | Credit Card | Parasitic Infection | 2024-06-07 |
| 6 | Winston Whitmore | Cash | Routine Checkup | 2024-05-01 |
| 7 | Winston Whitmore | Cash | Routine Checkup | 2024-01-15 |
| 8 | Wooli Blackwood | Credit Card | Tumor Removal | 2024-03-15 |

Query executed successfully.

SAI-DONEPUDI\MSQLSERVER01 ... SAI-DONEPUDI\14699 (79) petMatrix_db 00:00:00 8 rows