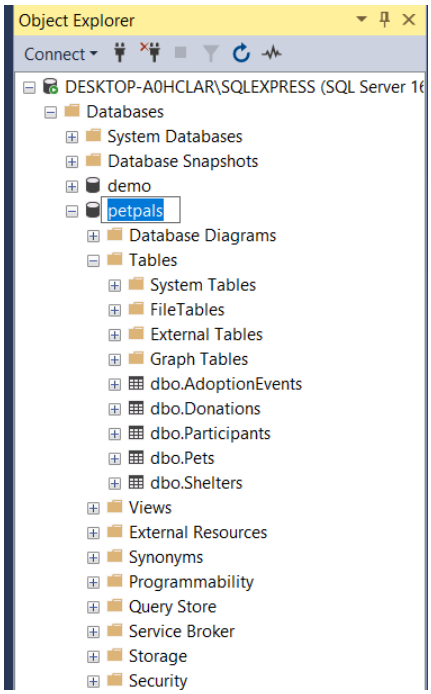
Hexaware_Coding Assessment

--1. Provide a SQL script that initializes the database for the Pet Adoption Platform "PetPals".

```
IF NOT EXISTS (SELECT * FROM sys.database WHERE Name = 'petpals')
BEGIN
        CREATE DATABASE petpals;
END
GO

USE petpals;
```



- The script checks if a database named "petpals" exists or not and if not it creates the database.

--2. Create tables for pets, shelters, donations, adoption events, and participants.
-- Pets Table
--3. Define appropriate primary keys, foreign keys, and constraints.
--4. Ensure the script handles potential errors, such as if the database or tables already exist.

```
IF NOT EXISTS(SELECT * FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME
= 'Pets')
BEGIN
	CREATE TABLE Pets (
		PetId INT PRIMARY KEY IDENTITY(1,1),
		Name VARCHAR(255) NOT NULL,
		Age INT CHECK(Age >= 0),
		Breed VARCHAR(255),
		Type VARCHAR(255),
		AvailableForAdoption BIT DEFAULT 1,
		ShelterID INT,
		FOREIGN KEY (ShelterID) REFERENCES Shelters(ShelterId) ON DELETE SET
NULL
	);
END
GO

INSERT INTO Pets (Name, Age, Breed, Type, AvailableForAdoption, ShelterID) VALUES
	('Bruno', 3, 'Labrador', 'Dog', 1, 11),
	('Fluffy', 2, 'Persian', 'Cat', 1, 12),
	('Rex', 4, 'German Shepherd', 'Dog', 0, 13),
	('Simba', 1, 'Golden Retriever', 'Dog', 1, 14),
	('Tuffy', 5, 'Shih Tzu', 'Dog', 1, 15),
	('Leo', 7, 'Siamese', 'Cat', 0, 16),
	('Rocky', 3, 'Bulldog', 'Dog', 1, 17),
	('Jelly', 2, 'Sphynx', 'Cat', 1, 18),
	('Sheru', 8, 'Doberman', 'Dog', 0, 19),
	('Melly', 1, 'Ragdoll', 'Cat', 1, 20);
```

```
41
42  SELECT * FROM Pets;
```

.10 %

Results | Messages

	PetId	Name	Age	Breed	Type	AvailableForAdoption	ShelterID	OwnerId
1	3	Bruno	3	Labrador	Dog	1	11	NULL
2	4	Fluffy	2	Persian	Cat	1	12	NULL
3	5	Rex	4	German Shepherd	Dog	0	13	0
4	6	Simba	1	Golden Retriever	Dog	1	14	NULL
5	7	Tuffy	5	Shih Tzu	Dog	1	15	NULL
6	8	Leo	7	Siamese	Cat	0	16	0
7	9	Rocky	3	Bulldog	Dog	1	17	NULL
8	10	Jelly	2	Sphynx	Cat	1	18	NULL
9	11	Sheru	8	Doberman	Dog	0	19	0
10	12	Melly	1	Ragdoll	Cat	1	20	NULL

```
-- Shelters Table
CREATE TABLE Shelters (
        ShelterId INT PRIMARY KEY IDENTITY(11,1),
        ShelterName VARCHAR(255) NOT NULL,
        ShelterLocation VARCHAR(255) NOT NULL
        );

INSERT INTO Shelters (ShelterName, ShelterLocation) VALUES
        ('Happy Paws Shelter', 'Mumbai'),
        ('Companion Care Shelter', 'Chennai'),
        ('Pet Haven', 'Delhi'),
        ('Furry Friends Shelter', 'Kolkata'),
        ('Paw Prints Shelter', 'Bangalore'),
        ('Safe Shelter', 'Hyderabad'),
        ('Hope for Paws', 'Pune'),
        ('Animal Rescue Shelter', 'Jaipur'),
        ('Pet Paradise Shelter', 'Ahmedabad'),
        ('Forever Friends Shelter', 'Lucknow');
```

```
41
42  SELECT * FROM Shelters;
```

110 %

Results | Messages

	ShelterId	ShelterName	ShelterLocation
1	11	Happy Paws Shelter	Mumbai
2	12	New Care Shelter	Aurangabad
3	13	Pet Haven	Delhi
4	14	Furry Friends Shelter	Kolkata
5	15	Paw Prints Shelter	Bangalore
6	16	Safe Shelter	Hyderabad
7	17	Hope for Paws	Pune
8	18	Animal Rescue Shelter	Jaipur
9	19	Pet Paradise Shelter	Ahmedabad
10	20	Forever Friends Shelter	Lucknow

```
-- Donations Table
CREATE TABLE Donations(
   DonationID INT PRIMARY KEY IDENTITY(21,1),
   DonorName VARCHAR(255),
   DonationType VARCHAR(50),
   DonationAmount DECIMAL(10,2),
   DonationItem VARCHAR(255),
   DonationDate DATETIME DEFAULT GETDATE(),
         ShelterId INT,
         FOREIGN KEY (ShelterId) REFERENCES Shelters(ShelterId) ON DELETE SET NULL
);

INSERT INTO Donations(DonorName, DonationType, DonationAmount, DonationItem,
DonationDate, ShelterID) VALUES
   ('Rajesh Gupta', 'Cash', 10000, NULL, '2024-01-15 10:30:00', 11),
   ('Anita Sharma', 'Item', NULL, 'Dog Food', '2024-02-10 14:00:00', 12),
   ('Vikram Patel', 'Cash', 5000, NULL, '2024-03-05 09:15:00', 13),
   ('Suman Rao', 'Cash', 8000, NULL, '2024-04-12 16:45:00', 14),
   ('Arjun Desai', 'Item', NULL, 'Cat Food', '2024-05-20 11:20:00', 15),
   ('Kavita Mehta', 'Cash', 6000, NULL, '2024-06-15 08:00:00', 16),
   ('Neha Joshi', 'Item', NULL, 'Dog Toys', '2024-07-10 12:30:00', 17),
   ('Manoj Singh', 'Cash', 15000, NULL, '2024-08-18 15:00:00', 18),
   ('Rani Kapoor', 'Item', NULL, 'Pet Beds', '2024-09-22 17:10:00', 19),
   ('Ajay Yadav', 'Cash', 7000, NULL, '2024-10-01 09:50:00', 20);
```

```
41
42  SELECT * FROM Donations;
```

110 %

Results | Messages

	DonationID	DonorName	DonationType	DonationAmount	DonationItem	DonationDate	ShelterId
1	21	Rajesh Gupta	Cash	10000.00	NULL	2024-01-15 10:30:00.000	11
2	22	Anita Sharma	Item	NULL	Dog Food	2024-02-10 14:00:00.000	12
3	23	Vikram Patel	Cash	5000.00	NULL	2024-03-05 09:15:00.000	13
4	24	Suman Rao	Cash	8000.00	NULL	2024-04-12 16:45:00.000	14
5	25	Arjun Desai	Item	NULL	Cat Food	2024-05-20 11:20:00.000	15
6	26	Kavita Mehta	Cash	6000.00	NULL	2024-06-15 08:00:00.000	16
7	27	Neha Joshi	Item	NULL	Dog Toys	2024-07-10 12:30:00.000	17
8	28	Manoj Singh	Cash	15000.00	NULL	2024-08-18 15:00:00.000	18
9	29	Rani Kapoor	Item	NULL	Pet Beds	2024-09-22 17:10:00.000	19
10	30	Ajay Yadav	Cash	7000.00	NULL	2024-10-01 09:50:00.000	20

```
-- AdoptionEvents Table
CREATE TABLE AdoptionEvents(
        EventId INT PRIMARY KEY IDENTITY(31,1),
        EventName VARCHAR(255),
        EventDate DATETIME DEFAULT GETDATE(),
        EventLocation VARCHAR(255)
        );

INSERT INTO AdoptionEvents(EventName, EventDate, EventLocation) VALUES
   ('Pets Adoption Mumbai', '2024-01-20 10:00:00', 'Mumbai'),
   ('Pet Adoption Fest', '2024-02-25 11:30:00', 'Chennai'),
   ('Furry Friends Fest', '2024-03-15 14:00:00', 'Delhi'),
   ('Rescue Adoption Drive', '2024-04-10 09:00:00', 'Kolkata'),
   ('Happy Tails Event', '2024-05-05 13:00:00', 'Bangalore'),
   ('Pawfect Fest', '2024-06-08 15:30:00', 'Hyderabad'),
   ('Pets Drive', '2024-07-18 10:45:00', 'Pune'),
   ('Adopt for Love Event', '2024-08-22 12:30:00', 'Jaipur'),
   ('Find a Friend Event', '2024-09-19 11:15:00', 'Ahmedabad'),
   ('Pets Fest', '2024-10-10 16:00:00', 'Lucknow');
```

```
SELECT * FROM AdoptionEvents;
```

10 %

Results | Messages

	EventId	EventName	EventDate	EventLocation
1	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
2	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
3	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
4	34	Rescue Adoption Drive	2024-04-10 09:00:00.000	Kolkata
5	35	Happy Tails Event	2024-05-05 13:00:00.000	Bangalore
6	36	Pawfect Fest	2024-06-08 15:30:00.000	Hyderabad
7	37	Pets Drive	2024-07-18 10:45:00.000	Pune
8	38	Adopt for Love Event	2024-08-22 12:30:00.000	Jaipur
9	39	Find a Friend Event	2024-09-19 11:15:00.000	Ahmedabad
10	40	Pets Fest	2024-10-10 16:00:00.000	Lucknow

```
-- Participants Table
CREATE TABLE Participants(
        ParticipantId INT PRIMARY KEY IDENTITY(41,1),
        ParticipantName VARCHAR(255),
        EventID INT,
        FOREIGN KEY (EventID) REFERENCES AdoptionEvents(EventId) ON DELETE
CASCADE
        );

INSERT INTO Participants(ParticipantName, EventID) VALUES
        ('Sahil', 31),
        ('Rajesh', 31),
        ('Rahul', 32),
        ('Ankita', 32),
        ('Tanmay', 33),
        ('Vikram', 33),
        ('Om', 34),
        ('Ishika', 34),
        ('Pragya', 35),
        ('Raj', 35);
```

```
SELECT * FROM Participants;
```

110 %

Results | Messages

	ParticipantId	ParticipantName	EventID
1	41	Sahil	31
2	42	Rajesh	31
3	43	Rahul	32
4	44	Ankita	32
5	45	Tanmay	33
6	46	Vikram	33
7	47	Om	34
8	48	Ishika	34
9	49	Pragya	35
10	50	Raj	35

*SELECT * FROM Pets;*
*SELECT * FROM Shelters;*
*SELECT * FROM Donations;*
*SELECT * FROM AdoptionEvents;*
*SELECT * FROM Participants;*

--5. Write an SQL query that retrieves a list of available pets (those marked as available for adoption)
--from the "Pets" table. Include the pet's name, age, breed, and type in the result set. Ensure that
--the query filters out pets that are not available for adoption.

```
SELECT Name as PetName, Age as PetAge, Breed as PetBreed, Type as PetType
FROM Pets
WHERE AvailableForAdoption = 1;
```

110 %

Results | Messages

	PetName	PetAge	PetBreed	PetType
1	Bruno	3	Labrador	Dog
2	Fluffy	2	Persian	Cat
3	Simba	1	Golden Retriever	Dog
4	Tuffy	5	Shih Tzu	Dog
5	Rocky	3	Bulldog	Dog
6	Jelly	2	Sphynx	Cat
7	Melly	1	Ragdoll	Cat

- The WHERE clause ensures that only pets marked as available for adoption i.e., AvailableForAdoption = 1 are included in the results.

--6. Write an SQL query that retrieves the names of participants (shelters and adopters) registered
--for a specific adoption event. Use a parameter to specify the event ID. Ensure that the query
--joins the necessary tables to retrieve the participant names and types.

```
SELECT P.ParticipantName, AE.EventId, AE.EventName, AE.EventLocation
FROM Participants as P
JOIN AdoptionEvents as AE ON P.EventId = AE.EventId
WHERE AE.EventID = 31;
```

Results | Messages

	ParticipantName	EventId	EventName	EventLocation
1	Sahil	31	Pets Adoption Mumbai	Mumbai
2	Rajesh	31	Pets Adoption Mumbai	Mumbai

- *Data Retrieval: The query selects participant names along with event details (EventId, EventName, EventLocation).*
- *Table Joins: It uses an inner join between the Participants and AdoptionEvents tables based on the EventId to link participants to their respective events.*
- *Parameter Filtering: The WHERE clause filters the results to include only participants registered for a specific event (EventID = 31).*

--7. Create a stored procedure in SQL that allows a shelter to update its information (name and
--location) in the "Shelters" table. Use parameters to pass the shelter ID and the new information.
--Ensure that the procedure performs the update and handles potential errors, such as an invalid
--shelter ID.

```
CREATE PROCEDURE UpdateShelterInfo
	@ShelterId INT, @NewShelterName VARCHAR(255), @NewShelterLocation
VARCHAR(255)
AS
BEGIN
	UPDATE Shelters
	SET ShelterName = @NewShelterName,
		ShelterLocation = @NewShelterLocation
	WHERE ShelterId = @ShelterId
END;
```

EXEC UpdateShelterInfo @ShelterId = 12, @NewShelterName = 'New Care Shelter', @NewShelterLocation = 'Aurangabad';
*SELECT * FROM Shelters;*

Results | Messages

	ShelterId	ShelterName	ShelterLocation
1	11	Happy Paws Shelter	Mumbai
2	12	New Care Shelter	Aurangabad
3	13	Pet Haven	Delhi
4	14	Furry Friends Shelter	Kolkata
5	15	Paw Prints Shelter	Bangalore
6	16	Safe Shelter	Hyderabad
7	17	Hope for Paws	Pune
8	18	Animal Rescue Shelter	Jaipur
9	19	Pet Paradise Shelter	Ahmedabad
10	20	Forever Friends Shelter	Lucknow

--8. Write an SQL query that calculates and retrieves the total donation amount for each shelter (by
--shelter name) from the "Donations" table. The result should include the shelter name and the
--total donation amount. Ensure that the query handles cases where a shelter has received no
--donations.

*SELECT * FROM Shelters;*
*SELECT * FROM Donations;*

SELECT S.ShelterName, SUM(D.DonationAmount) as TotalDonation
FROM Shelters as S
LEFT JOIN Donations as D ON S.ShelterId = D.ShelterID
GROUP BY S.ShelterName;

Results | Messages

	ShelterName	TotalDonation
1	Animal Rescue Shelter	15000.00
2	Forever Friends Shelter	7000.00
3	Furry Friends Shelter	8000.00
4	Happy Paws Shelter	10000.00
5	Hope for Paws	NULL
6	New Care Shelter	NULL
7	Paw Prints Shelter	NULL
8	Pet Haven	5000.00
9	Pet Paradise Shelter	NULL
10	Safe Shelter	6000.00

--9. Write an SQL query that retrieves the names of pets from the "Pets" table that do not have an
--owner (i.e., where "OwnerID" is null). Include the pet's name, age, breed, and type in the result set.

```
SELECT * FROM Pets;

ALTER TABLE Pets ADD OwnerId INT;

UPDATE Pets
SET OwnerId = 0
WHERE AvailableForAdoption = 0;



SELECT Name, Age, Breed, Type
FROM Pets
WHERE OwnerId IS NULL;
```

Results | Messages

	Name	Age	Breed	Type
1	Bruno	3	Labrador	Dog
2	Fluffy	2	Persian	Cat
3	Simba	1	Golden Retriever	Dog
4	Tuffy	5	Shih Tzu	Dog
5	Rocky	3	Bulldog	Dog
6	Jelly	2	Sphynx	Cat
7	Melly	1	Ragdoll	Cat

--10. Write an SQL query that retrieves the total donation amount for each month and year (e.g.,
--January 2023) from the "Donations" table. The result should include the month-year and the
--corresponding total donation amount. Ensure that the query handles cases where no donations
--were made in a specific month-year

```
SELECT * FROM Donations;

SELECT
   FORMAT(DonationDate, 'MMMM') + '-' + CAST(YEAR(DonationDate) AS VARCHAR) AS MonthYear,
   SUM(DonationAmount) AS TotalDonationAmount
FROM
   Donations
GROUP BY FORMAT(DonationDate, 'MMMM'),YEAR(DonationDate);
```

Results | Messages

	MonthYear	TotalDonationAmount
1	April-2024	8000.00
2	August-2024	15000.00
3	February-2024	NULL
4	January-2024	10000.00
5	July-2024	NULL
6	June-2024	6000.00
7	March-2024	5000.00
8	May-2024	NULL
9	October-2024	7000.00
10	September-2024	NULL

- FORMAT - It formats the DonationDate to create a month-year string

--11. Retrieve a list of distinct breeds for all pets that are either aged between 1 and 3 years or older
--than 5 years.

```
SELECT * FROM Pets;

SELECT DISTINCT Breed, Type
FROM Pets
WHERE Age BETWEEN 1 AND 3 OR Age > 5;
```

Results | Messages

	Breed	Type
1	Bulldog	Dog
2	Doberman	Dog
3	Golden Retriever	Dog
4	Labrador	Dog
5	Persian	Cat
6	Ragdoll	Cat
7	Siamese	Cat
8	Sphynx	Cat

--12. Retrieve a list of pets and their respective shelters where the pets are currently available for
--adoption.

```
SELECT  P.Name AS PetName, P.Age AS PetAge, P.Breed AS PetBreed,
                S.ShelterName, S.ShelterLocation
FROM Pets P
JOIN Shelters S ON P.ShelterID = S.ShelterID
WHERE p.AvailableForAdoption = 1;
```

Results | Messages

	PetName	PetAge	PetBreed	ShelterName	ShelterLocation
1	Bruno	3	Labrador	Happy Paws Shelter	Mumbai
2	Fluffy	2	Persian	New Care Shelter	Aurangabad
3	Simba	1	Golden Retriever	Furry Friends Shelter	Kolkata
4	Tuffy	5	Shih Tzu	Paw Prints Shelter	Bangalore
5	Rocky	3	Bulldog	Hope for Paws	Pune
6	Jelly	2	Sphynx	Animal Rescue Shelter	Jaipur
7	Melly	1	Ragdoll	Forever Friends Shelter	Lucknow

--13. Find the total number of participants in events organized by shelters located in specific city.
--Example: City=Chennai

```
SELECT * FROM Pets;
SELECT * FROM Shelters;
SELECT * FROM Donations;
SELECT * FROM AdoptionEvents;
SELECT * FROM Participants;


SELECT COUNT(P.ParticipantId) AS TotalParticipants, S.ShelterLocation
FROM Participants P
JOIN AdoptionEvents A ON P.EventID = A.EventId
JOIN Shelters s ON a.EventLocation = s.ShelterLocation
WHERE s.ShelterLocation = 'Mumbai'
GROUP BY S.ShelterLocation;
```

Results | Messages

	TotalParticipants	ShelterLocation
1	2	Mumbai

--14. Retrieve a list of unique breeds for pets with ages between 1 and 5 years.

```
SELECT DISTINCT Breed, Type
FROM Pets
WHERE AGE BETWEEN 1 AND 5;
```

Results | Messages

	Breed	Type
1	Bulldog	Dog
2	German Shepherd	Dog
3	Golden Retriever	Dog
4	Labrador	Dog
5	Persian	Cat
6	Ragdoll	Cat
7	Shih Tzu	Dog
8	Sphynx	Cat

--15. Find the pets that have not been adopted by selecting their information from the 'Pet' table.

```
SELECT * FROM PETS
WHERE AvailableForAdoption = 1;
```

Results | Messages

	PetId	Name	Age	Breed	Type	AvailableForAdoption	ShelterID	OwnerId
1	3	Bruno	3	Labrador	Dog	1	11	NULL
2	4	Fluffy	2	Persian	Cat	1	12	NULL
3	6	Simba	1	Golden Retriever	Dog	1	14	NULL
4	7	Tuffy	5	Shih Tzu	Dog	1	15	NULL
5	9	Rocky	3	Bulldog	Dog	1	17	NULL
6	10	Jelly	2	Sphynx	Cat	1	18	NULL
7	12	Melly	1	Ragdoll	Cat	1	20	NULL

--16. Retrieve the names of all adopted pets along with the adopter's name from the 'Adoption' and
--'User' tables.

```
CREATE TABLE Adoptions (
    AdoptionId INT PRIMARY KEY IDENTITY(1,1),
    PetId INT,
    AdopterName VARCHAR(255),
    AdoptionDate DATETIME DEFAULT GETDATE(),
    ShelterId INT,
    FOREIGN KEY (PetId) REFERENCES Pets(PetId) ON DELETE CASCADE,
    FOREIGN KEY (ShelterId) REFERENCES Shelters(ShelterId) ON DELETE SET NULL
);

INSERT INTO Adoptions (PetId, AdopterName, AdoptionDate, ShelterId) VALUES
    (3, 'Amit', '2024-03-10 10:00:00', 13),
    (6, 'Sarvesh', '2024-06-20 12:30:00', 16),
    (8, 'Jay', '2024-08-15 14:00:00', 17),
    (9, 'Pratham', '2024-09-05 09:45:00', 18);

SELECT * FROM Adoptions;
```

Results | Messages

	AdoptionId	PetId	AdopterName	AdoptionDate	ShelterId
1	1	3	Amit	2024-03-10 10:00:00.000	13
2	2	6	Sarvesh	2024-06-20 12:30:00.000	16
3	3	8	Jay	2024-08-15 14:00:00.000	17
4	4	9	Pratham	2024-09-05 09:45:00.000	18

```
SELECT P.Name AS PetName, A.AdopterName
FROM Adoptions A
JOIN Pets P ON A.PetId = P.PetId
WHERE P.AvailableForAdoption = 0;
```

Results | Messages

	PetName	AdopterName
1	Leo	Jay

--17. Retrieve a list of all shelters along with the count of pets currently available for adoption in each
--shelter.

```
SELECT * FROM Shelters;

SELECT S.ShelterName, S.ShelterLocation, COUNT(P.PetId) AS AvailablePetsCount
FROM Shelters S
LEFT JOIN Pets P ON S.ShelterId = P.ShelterId AND P.AvailableForAdoption = 1
GROUP BY S.ShelterId, ShelterName, S.ShelterLocation;
```

Results | Messages

	ShelterName	ShelterLocation	AvailablePetsCount
1	Happy Paws Shelter	Mumbai	1
2	New Care Shelter	Aurangabad	1
3	Pet Haven	Delhi	0
4	Furry Friends Shelter	Kolkata	1
5	Paw Prints Shelter	Bangalore	1
6	Safe Shelter	Hyderabad	0
7	Hope for Paws	Pune	1
8	Animal Rescue Shelter	Jaipur	1
9	Pet Paradise Shelter	Ahmedabad	0
10	Forever Friends Shelter	Lucknow	1

--18. Find pairs of pets from the same shelter that have the same breed.

```
SELECT P1.Name AS Pet1, P2.Name AS Pet2, P1.Breed, S.ShelterName
FROM Pets P1
JOIN Pets P2 ON P1.Breed = P2.Breed AND P1.PetId != P2.PetId
JOIN Shelters S ON P1.ShelterID = S.ShelterId;
-- Result is NA because no common pets in Database.
```

Results | Messages

	Pet1	Pet2	Breed	ShelterName

--19. List all possible combinations of shelters and adoption events.

*SELECT * FROM Shelters*
CROSS JOIN AdoptionEvents;

Results | Messages

	ShelterId	ShelterName	ShelterLocation	EventId	EventName	EventDate	EventLocation
1	11	Happy Paws Shelter	Mumbai	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
2	12	New Care Shelter	Aurangabad	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
3	13	Pet Haven	Delhi	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
4	14	Furry Friends Shelter	Kolkata	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
5	15	Paw Prints Shelter	Bangalore	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
6	16	Safe Shelter	Hyderabad	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
7	17	Hope for Paws	Pune	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
8	18	Animal Rescue Shelter	Jaipur	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
9	19	Pet Paradise Shelter	Ahmedabad	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
10	20	Forever Friends Shelter	Lucknow	31	Pets Adoption Mumbai	2024-01-20 10:00:00.000	Mumbai
11	11	Happy Paws Shelter	Mumbai	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
12	12	New Care Shelter	Aurangabad	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
13	13	Pet Haven	Delhi	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
14	14	Furry Friends Shelter	Kolkata	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
15	15	Paw Prints Shelter	Bangalore	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
16	16	Safe Shelter	Hyderabad	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
17	17	Hope for Paws	Pune	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
18	18	Animal Rescue Shelter	Jaipur	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
19	19	Pet Paradise Shelter	Ahmedabad	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
20	20	Forever Friends Shelter	Lucknow	32	Pet Adoption Fest	2024-02-25 11:30:00.000	Chennai
21	11	Happy Paws Shelter	Mumbai	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
22	12	New Care Shelter	Aurangabad	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
23	13	Pet Haven	Delhi	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
24	14	Furry Friends Shelter	Kolkata	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
25	15	Paw Prints Shelter	Bangalore	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
26	16	Safe Shelter	Hyderabad	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
27	17	Hope for Paws	Pune	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
28	18	Animal Rescue Shelter	Jaipur	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
29	19	Pet Paradise Shelter	Ahmedabad	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
30	20	Forever Friends Shelter	Lucknow	33	Furry Friends Fest	2024-03-15 14:00:00.000	Delhi
31	11	Happy Paws Shelter	Mumbai	34	Rescue Adoption Drive	2024-04-10 09:00:00.000	Kolkata
32	12	New Care Shelter	Aurangabad	34	Rescue Adoption Drive	2024-04-10 09:00:00.000	Kolkata
33	13	Pet Haven	Delhi	34	Rescue Adoption Drive	2024-04-10 09:00:00.000	Kolkata

--20. Determine the shelter that has the highest number of adopted pets

SELECT S.ShelterName, COUNT(A.PetId) AS NumberOfAdoptedPets
FROM Adoptions A
JOIN Shelters S ON A.ShelterId = S.ShelterId
GROUP BY S.ShelterName
ORDER BY NumberOfAdoptedPets DESC;

Results | Messages

	ShelterName	NumberOfAdoptedPets
1	Animal Rescue Shelter	1
2	Hope for Paws	1
3	Pet Haven	1
4	Safe Shelter	1