

Coding Challenges - PetPals, The Pet Adoption Platform

Task 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.



Result Grid		Filter Rows:		Exp
	Name	Age	Breed	Type
►	Buddy	3	Golden Retriever	Dog
	Whiskers	2	Persian	Cat
	Luna	1	Siberian	Cat
	Max	4	Bulldog	Dog
	Oliver	2	Maine Coon	Cat
	Rocky	3	Poodle	Dog
	Simba	4	Bengal	Cat
	Daisy	2	Shih Tzu	Dog
	Milo	1	Scottish Fold	Cat

Task 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.

Result Grid		Filter Rows:	
	ParticipantName	ParticipantType	
►	Happy Paws Shelter	Shelter	
	Emily Johnson	Adopter	


Task 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.

Task 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.

Result Grid				Filter Rows:	<input type="text"/>
	ShelterName	TotalDonation			
▶	Happy Paws Shelter	200.00			
	Furry Friends Rescue	0.00			
	Purrfect Haven	500.00			
	Safe Haven Shelter	0.00			
	Home for Paws	300.00			
	Golden Hearts Shelter	450.00			
	Loving Tails Rescue	0.00			
	Hopeful Companions	600.00			

Task 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.

Result Grid



Filter Rows:

	Name	Age	Breed	Type
▶	Buddy	3	Golden Retriever	Dog
	Whiskers	2	Persian	Cat
	Max	4	Bulldog	Dog
	Oliver	2	Maine Coon	Cat
	Rocky	3	Poodle	Dog
	Milo	1	Scottish Fold	Cat
	Shadow	7	Siamese	Cat
	Buster	2	Cocker Spaniel	Dog
	Bailey	6	Border Collie	Dog

Task 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.

Result Grid			Filter Rows:
	MonthYear	TotalDonation	
▶	2025-January	900.00	
	2025-February	500.00	
	2025-March	200.00	
	2025-April	800.00	

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

Result Grid		Filter Rows:
	Breed	
▶	Golden Retriever	
	Persian	
	Siberian	
	Labrador	
	Maine Coon	
	Poodle	
	Shih Tzu	
	Scottish Fold	
	Siamese	

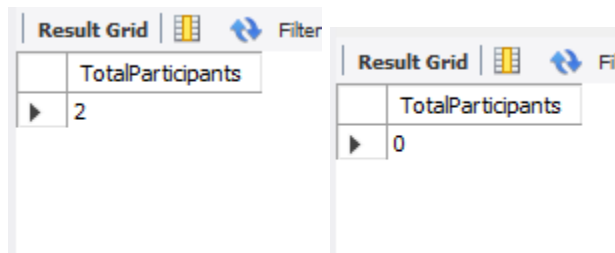
Result Grid		Filter Rows:
	Breed	
	Maine Coon	
	Poodle	
	Shih Tzu	
	Scottish Fold	
	Siamese	
	Cocker Spaniel	
	Border Collie	
	Husky	
	German Shepherd	

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

Result Grid			Filter Rows:
	PetName	ShelterName	
▶	Buddy	Happy Paws Shelter	
	Simba	Happy Paws Shelter	
	Zoe	Happy Paws Shelter	
	Whiskers	Furry Friends Rescue	
	Daisy	Furry Friends Rescue	
	Oscar	Furry Friends Rescue	
	Milo	Purrfect Haven	
	Luna	Safe Haven Shelter	
	Leo	Safe Haven Shelter	

Result Grid			Filter Rows:
	PetName	ShelterName	
	Milo	Purrfect Haven	
	Luna	Safe Haven Shelter	
	Leo	Safe Haven Shelter	
	Max	Home for Paws	
	Shadow	Home for Paws	
	Buster	Golden Hearts Shelter	
	Oliver	Loving Tails Rescue	
	Ginger	Loving Tails Rescue	
	Rocky	Hopeful Companions	

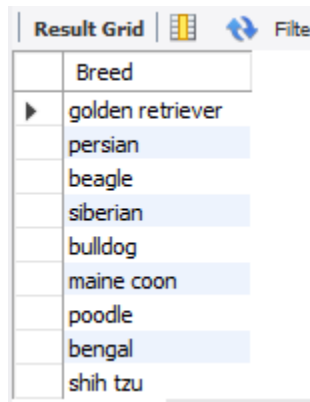
Task 13- Find the total number of participants in events organized by shelters located in specific city. Example: City=Chennai



TotalParticipants
2

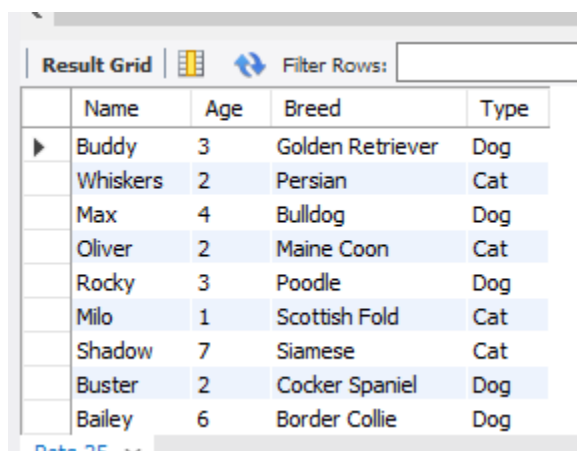
TotalParticipants
0

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



Breed
golden retriever
persian
beagle
siberian
bulldog
maine coon
poodle
bengal
shih tzu

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



Name	Age	Breed	Type
Buddy	3	Golden Retriever	Dog
Whiskers	2	Persian	Cat
Max	4	Bulldog	Dog
Oliver	2	Maine Coon	Cat
Rocky	3	Poodle	Dog
Milo	1	Scottish Fold	Cat
Shadow	7	Siamese	Cat
Buster	2	Cocker Spaniel	Dog
Bailey	6	Border Collie	Dog

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

Result Grid		Filter Rows:
	PetName	AdopterName
▶	Charlie	Emily Johnson
	Bella	Mark Thompson
	Daisy	Anna Lee
	Coco	Kevin Wright
	Ginger	Sarah Green
	Zoe	James Carter
	Oscar	Emily Johnson
	Leo	Mark Thompson
	Simba	Anna Lee

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

	ShelterName	AvailablePets
▶	Happy Paws Shelter	3
	Furry Friends Rescue	3
	Purrfect Haven	1
	Safe Haven Shelter	2
	Home for Paws	2
	Golden Hearts Shelter	1
	Loving Tails Rescue	2
	Hopeful Companions	1

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

Result Grid

Filter Rows:

Export:



	Pet1	Pet2	ShelterName	Breed
▶	Oliver	Ginger	Loving Tails Rescue	Maine Coon

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

	ShelterName	EventName
▶	Hopeful Companions	Spring Pet Adoption Fair
	Loving Tails Rescue	Spring Pet Adoption Fair
	Golden Hearts Shelter	Spring Pet Adoption Fair
	Home for Paws	Spring Pet Adoption Fair
	Safe Haven Shelter	Spring Pet Adoption Fair
	Purrfect Haven	Spring Pet Adoption Fair
	Furry Friends Rescue	Spring Pet Adoption Fair
	Happy Paws Shelter	Spring Pet Adoption Fair
	Hopeful Companions	Pawfect Adoption Day

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

Result Grid

Filter Rows:

	ShelterName	TotalAdoptions
▶	Safe Haven Shelter	3