

Coding Challenge

PETPALS

TASKS:

1.

```
coding challenge 1_petpals* x
Limit to 1000 rows
1  /*1 task*/
2  CREATE DATABASE IF NOT EXISTS PetPalsDB;
3  use petpalsdb;
```

2,3&4.

```
5  /*2,3,4 task*/
6  CREATE TABLE Pets (
7      PetID INT PRIMARY KEY,
8      Name VARCHAR(255),
9      Age INT,
10     Breed VARCHAR(255),
11     Type VARCHAR(255),
12     AvailableForAdoption BIT
13 );
14
15 CREATE TABLE Shelters (
16     ShelterID INT PRIMARY KEY,
17     Name VARCHAR(255),
18     Location VARCHAR(255)
19 );
20
21 CREATE TABLE Donations (
22     DonationID INT PRIMARY KEY,
23     DonorName VARCHAR(255),
24     DonationType VARCHAR(255),
25     DonationAmount DECIMAL,
26     DonationItem VARCHAR(255),
27     DonationDate DATETIME
28 );
29
30 CREATE TABLE AdoptionEvents (
31     EventID INT PRIMARY KEY,
32     EventName VARCHAR(255),
33     EventDate DATETIME,
34     Location VARCHAR(255)
35 );
36
37 CREATE TABLE Participants (
38     ParticipantID INT PRIMARY KEY,
39     ParticipantName VARCHAR(255),
40     ParticipantType VARCHAR(255),
41     EventID INT REFERENCES AdoptionEvents(EventID)
42 );
```

Data Insertion:

```
coding challenge 1_petpals ×
Limit to 1000 rows

44 ● INSERT INTO Pets (PetID, Name, Age, Breed, Type, AvailableForAdoption)
45 VALUES
46 (1, 'Simba', 2, 'Indian Cat', 'Cat', 1),
47 (2, 'Bhola', 3, 'Labrador', 'Dog', 1),
48 (3, 'Meera', 1, 'Persian Cat', 'Cat', 0),
49 (4, 'Raj', 4, 'Golden Retriever', 'Dog', 1);
50
51
52 ● INSERT INTO Shelters (ShelterID, Name, Location)
53 VALUES
54 (1, 'Happy Paws Shelter', 'Mumbai'),
55 (2, 'Compassionate Care Shelter', 'Delhi'),
56 (3, 'Loving Hearts Shelter', 'Bangalore');
57
58
59 ● INSERT INTO Donations (DonationID, DonorName, DonationType, DonationAmount, DonationItem, DonationDate)
60 VALUES
61 (1, 'Ananya', 'Cash', 500.00, NULL, '2023-01-15'),
62 (2, 'Rahul', 'Item', NULL, 'Pet Food', '2023-02-20'),
63 (3, 'Sneha', 'Cash', 300.00, NULL, '2023-03-10');
64
65
66 ● INSERT INTO AdoptionEvents (EventID, EventName, EventDate, Location)
67 VALUES
68 (1, 'Adoption Day', '2023-04-01', 'Jaigaon'),
69 (2, 'Pet Fest', '2023-05-15', 'Mumbai');
70
71
72 ● INSERT INTO Participants (ParticipantID, ParticipantName, ParticipantType, EventID)
73 VALUES
74 (1, 'Happy Paws Shelter', 'Shelter', 1),
75 (2, 'Ankita', 'Adopter', 1),
76 (3, 'Compassionate Care Shelter', 'Shelter', 2),
77 (4, 'Amit', 'Adopter', 2);
78
```

5.

coding challenge 1_petpals

```
79
80 /* 5 task*/
81 • SELECT Name, Age, Breed, Type
82 FROM Pets
83 WHERE AvailableForAdoption = 1;
84
```

Result Grid

Name	Age	Breed	Type
Simba	2	Indian Cat	Cat
Bhola	3	Labrador	Dog
Raj	4	Golden Retriever	Dog

Pets 2 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:53:32	SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption = 1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

6.

coding challenge 1_petpals

```
84 /*6 task*/
85 • SELECT ParticipantName
86 FROM Participants P
87 JOIN AdoptionEvents AE ON P.EventID = AE.EventID
88 WHERE AE.EventID = 1;
89
```

Result Grid

ParticipantName
Happy Paws Shelter
Ankita

Result 3 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:54:21	SELECT ParticipantName FROM Participants P JOIN AdoptionEvents AE ON P.EventID = AE.EventID WHERE...	2 row(s) returned	0.094 sec / 0.000 sec

7.

89

90 /*7 task*/

91 /*stored procedures*/

92

Result Grid

ParticipantName
Happy Paws Shelter
Ankita

Result 3 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:54:21	SELECT ParticipantName FROM Participants P JOIN AdoptionEvents AE ON P.EventID = AE.EventID WHERE ...	2 row(s) returned	0.094 sec / 0.000 sec

8.

coding challenge 1_petpals

93 /*8 task*/

94 • SELECT S.Name AS ShelterName, IFNULL(SUM(DonationAmount), 0) AS TotalDonationAmount

95 FROM Shelters S

96 LEFT JOIN Donations D ON S.ShelterID = D.donationID

97 GROUP BY S.Name;

98

Result Grid

ShelterName	TotalDonationAmount
Happy Paws Shelter	500
Compassionate Care Shelter	0
Loving Hearts Shelter	300

Result 4 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:55:46	SELECT S.Name AS ShelterName, IFNULL(SUM(DonationAmount), 0) AS TotalDonationAmount FROM Shelters...	3 row(s) returned	0.406 sec / 0.000 sec

9.

coding challenge 1_petsqls

```
99
100 /*9 task*/
101 • SELECT Name, Age, Breed, Type
102 FROM Pets
103 WHERE AvailableForAdoption= '1';
104
```

Result Grid

	Name	Age	Breed	Type
▶	Simba	2	Indian Cat	Cat
	Bhola	3	Labrador	Dog
	Raj	4	Golden Retriever	Dog

Pets 5 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:56:32	SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption= '1' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

10.

coding challenge 1_petsqls

```
105
106 /*10 task*/
107 • select donationdate ,IFNULL(SUM(DonationAmount), 0) AS TotalDonationAmount
108 from donations
109 group by(donationdate);
110
```

Result Grid

	donationdate	TotalDonationAmount
▶	2023-01-15 00:00:00	500
	2023-02-20 00:00:00	0
	2023-03-10 00:00:00	300

Result 6 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:57:08	select donationdate ,IFNULL(SUM(DonationAmount), 0) AS TotalDonationAmount from donations group by(dona...	3 row(s) returned	0.000 sec / 0.000 sec

11.

coding challenge 1_petpals

```
111
112 /*11 task*/
113 • SELECT DISTINCT Breed
114 FROM Pets
115 WHERE (Age BETWEEN 1 AND 3) OR (Age > 5);
116
```

Result Grid

Breed
Indian Cat
Labrador
Persian Cat

Pets 7 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:57:40	SELECT DISTINCT Breed FROM Pets WHERE (Age BETWEEN 1 AND 3) OR (Age > 5) LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

12.

coding challenge 1_petpals

```
117 /*12 task*/
118 • SELECT P.Name AS PetName, P.Breed, P.Type, S.Name AS ShelterName
119 FROM Pets P
120 JOIN Shelters S ON P.petid = S.ShelterID
121 WHERE P.AvailableForAdoption = 1;
122
```

Result Grid

PetName	Breed	Type	ShelterName
Simba	Indian Cat	Cat	Happy Paws Shelter
Bhola	Labrador	Dog	Compassionate Care Shelter

Result 8 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:58:22	SELECT P.Name AS PetName, P.Breed, P.Type, S.Name AS ShelterName FROM Pets P JOIN Shelters S ON P...	2 row(s) returned	0.000 sec / 0.000 sec

13.

coding challenge 1_petpals

```
123 /*13 task*/
124 • SELECT COUNT(*) AS TotalParticipants
125 FROM Participants P
126 JOIN AdoptionEvents AE ON P.EventID = AE.EventID
127 JOIN Shelters S ON AE.Location = 'jalgaon' AND P.ParticipantID = S.ShelterID
128 WHERE P.ParticipantType = 'Shelter';
129
```

Result Grid

TotalParticipants
1

Result 9 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:59:02	SELECT COUNT(*) AS TotalParticipants FROM Participants P JOIN AdoptionEvents AE ON P.EventID = AE.EventID	1 row(s) returned	0.000 sec / 0.000 sec

14.

coding challenge 1_petpals

```
130
131 /*14 task*/
132 • SELECT DISTINCT Breed
133 FROM Pets
134 WHERE Age BETWEEN 1 AND 5;
135
136
```

Result Grid

Breed
Indian Cat
Labrador
Persian Cat
Golden Retriever

Pets 10 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:59:35	SELECT DISTINCT Breed FROM Pets WHERE Age BETWEEN 1 AND 5 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

15.

coding challenge 1_petpals* x

Limit to 1000 rows

```
137
138 /*15 task*/
139 • SELECT Name, Age, Breed, Type
140 FROM Pets
141 WHERE AvailableForAdoption=1;
142
143
```

Result Grid

	Name	Age	Breed	Type
▶	Simba	2	Indian Cat	Cat
	Bhola	3	Labrador	Dog
	Raj	4	Golden Retriever	Dog

Pets 11 x

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Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	22:00:08	SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption=1 LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

16.

coding challenge 1_petpals* x

Limit to 1000 rows

```
142
143
144 /*16 task*/
145 /*No column to connect adoptions with petid and adoptions with userid*/
146
147
148
```

Result Grid

	Name	Age	Breed	Type
▶	Simba	2	Indian Cat	Cat
	Bhola	3	Labrador	Dog
	Raj	4	Golden Retriever	Dog

Pets 12 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	22:02:50	SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption=1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

17.

The screenshot shows a SQL IDE window titled "coding challenge 1: petpals". The SQL editor contains the following query:

```
148
149 /*17 task*/
150 • SELECT S.Name AS ShelterName, COUNT(P.PetID) AS TotalAvailablePets
151 FROM Shelters S
152 LEFT JOIN Pets P ON S.ShelterID = P.PetID AND P.AvailableForAdoption = 1 GROUP BY S.Name;
153 /* there is not shelter id in table pet or viserversa so i connected shelterid with petid*/
154
```

The "Result Grid" shows the following data:

ShelterName	TotalAvailablePets
Happy Paws Shelter	1
Compassionate Care Shelter	1
Loving Hearts Shelter	0

The "Output" panel shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	22:02:50	SELECT Name, Age, Breed, Type FROM Pets WHERE AvailableForAdoption=1 LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
2	22:03:22	SELECT S.Name AS ShelterName, COUNT(P.PetID) AS TotalAvailablePets FROM Shelters S LEFT JOIN Pets ...	3 row(s) returned	0.000 sec / 0.000 sec

18.

The screenshot shows a SQL IDE window titled "coding challenge 1: petpals". The SQL editor contains the following query:

```
154
155 /*18 task*/
156 • SELECT A.PetID AS Pet1, B.PetID AS Pet2
157 FROM Pets A
158 JOIN Pets B ON A.petid = B.petID AND A.Breed = B.Breed AND A.PetID < B.PetID;
159 /* there is not shelter id in table pet or viserversa so i connected shelterid with petid*/
160
```

The "Result Grid" shows the following data:

Pet1	Pet2
------	------

The "Output" panel shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	22:03:58	SELECT A.PetID AS Pet1, B.PetID AS Pet2 FROM Pets A JOIN Pets B ON A.petid = B.petID AND A.Breed = B...	0 row(s) returned	0.016 sec / 0.000 sec

19.

The screenshot shows a SQL IDE interface with a query editor, a result grid, and an output pane.

Query Editor:

```
160
161 /*19 task*/
162 • SELECT S.Name AS ShelterName, AE.EventName
163 FROM Shelters S
164 CROSS JOIN AdoptionEvents AE;
165
166
```

Result Grid:

ShelterName	EventName
Happy Paws Shelter	Pet Fest
Happy Paws Shelter	Adoption Day
Compassionate Care Shelter	Pet Fest
Compassionate Care Shelter	Adoption Day
Loving Hearts Shelter	Pet Fest
Loving Hearts Shelter	Adoption Day

Output Pane:

#	Time	Action	Message	Duration / Fetch
1	22:03:58	SELECT A.PetID AS Pet1, B.PetID AS Pet2 FROM Pets A JOIN Pets B ON A.petid = B.petID AND A.Breed = B...	0 row(s) returned	0.016 sec / 0.000 sec
2	22:04:26	SELECT S.Name AS ShelterName, AE.EventName FROM Shelters S CROSS JOIN AdoptionEvents AE LIMIT 0...	6 row(s) returned	0.000 sec / 0.000 sec

20.

The screenshot shows a SQL IDE interface with a query editor, a result grid, and an output pane.

Query Editor:

```
167 /*20 task*/
168 • SELECT S.Name AS ShelterName, COUNT(A.PetID) AS AdoptedPetsCount
169 FROM Shelters S
170 JOIN Pets P ON S.ShelterID = P.ShelterID
171 JOIN AdoptionEvents A ON P.PetID = A.PetID
172 GROUP BY S.Name
173 ORDER BY AdoptedPetsCount DESC LIMIT 1;
174 /* not possible to connect shelter id with pet table and adoptionevent with pet id there is not relation between them
175 the above can be the query else.*/
```

Result Grid:

ShelterName	EventName
Happy Paws Shelter	Pet Fest
Happy Paws Shelter	Adoption Day
Compassionate Care Shelter	Pet Fest
Compassionate Care Shelter	Adoption Day
Loving Hearts Shelter	Pet Fest
Loving Hearts Shelter	Adoption Day

Output Pane:

#	Time	Action	Message	Duration / Fetch
1	22:03:58	SELECT A.PetID AS Pet1, B.PetID AS Pet2 FROM Pets A JOIN Pets B ON A.petid = B.petID AND A.Breed = B...	0 row(s) returned	0.016 sec / 0.000 sec
2	22:04:26	SELECT S.Name AS ShelterName, AE.EventName FROM Shelters S CROSS JOIN AdoptionEvents AE LIMIT 0...	6 row(s) returned	0.000 sec / 0.000 sec