

CODING CHALLENGE-1

PETPALS, THE PET ADOPTION PLATFORM

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1)

```
mysql> create database petpals;  
Query OK, 1 row affected (0.05 sec)  
  
mysql> use petpals;  
Database changed  
mysql>
```

2)

```
mysql> CREATE TABLE pets (  
    -> petid int,  
    -> name varchar(20),  
    -> age int,  
    -> breed varchar(20),  
    -> type varchar(20),  
    -> availableforadoption int,  
    -> PRIMARY KEY (petid)  
    -> );  
Query OK, 0 rows affected (0.16 sec)
```

```
mysql> CREATE TABLE shelters (  
    -> shelterid INT,  
    -> name VARCHAR(20),  
    -> location VARCHAR(20),  
    -> PRIMARY KEY (shelterid)  
    -> );  
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> CREATE TABLE donations (  
  -> donationid INT,  
  -> donarname VARCHAR(20),  
  -> donationtype VARCHAR(20),  
  -> donationamount DECIMAL,  
  -> donationitem VARCHAR(20),  
  -> donationdate DATE,  
  -> PRIMARY KEY (donationid)  
  -> );  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE adoptionevents (  
  -> eventid INT,  
  -> evenetname VARCHAR(20),  
  -> eventdate DATE,  
  -> location VARCHAR(20),  
  -> PRIMARY KEY (eventid)  
  -> );  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> CREATE TABLE participants (  
  -> participantid INT,  
  -> participantname VARCHAR(20),  
  -> participanttype VARCHAR(20),  
  -> eventid INT,  
  -> PRIMARY KEY (participantid),  
  -> FOREIGN KEY (eventid) REFERENCES adoptionevents(eventid)  
  -> );  
Query OK, 0 rows affected (0.10 sec)
```

3)

```
mysql> desc pets;
```

Field	Type	Null	Key	Default	Extra
petid	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
age	int	YES		NULL	
breed	varchar(20)	YES		NULL	
type	varchar(20)	YES		NULL	
availableforadoption	int	YES		NULL	

```
6 rows in set (0.02 sec)
```

```
mysql> show tables;
```

Tables_in_petpals
adoptionevents
donations
participants
pets
shelters

```
5 rows in set (0.01 sec)
```

4)

```
mysql> INSERT INTO pets(petid, name, age, breed, type, availableforadoption)
-> VALUES ("1", "dogger", "5", "labro", "dog", "1"),
-> ("2", "rosy", "2", "house", "cat", "0"),
-> ("3", "jacky", "7", "golden retriver", "dog", "1"),
-> ("4", "kat", "1", "scottish", "cat", "1"),
-> ("5", "roger", "6", "german shepard", "dog", "1")
-> ;
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql>
```

```
mysql> INSERT INTO shelters (shelterid, name, location)
-> VALUES ("11", "burrow", "chennai"),
-> ("22", "red cross", "kochi"),
-> ("33", "shell park", "mumbai"),
-> ("44", "mark avenue", "pune"),
-> ("55", "tank street", "delhi")
-> ;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO donations (donationid, donarname, donationtype, donationamount, donationitem, donationdate) VALUES
-> ("425", "andrew", "cash", "5000", "NULL", "2023-05-22"),
-> ("643", "ryan", "cash", "8000", "NULL", "2023-06-30"),
-> ("742", "cal", "item", "5000", "toys", "2023-09-04"),
-> ("972", "adward", "cash", "10000", "NULL", "2023-11-12"),
-> ("123", "harry", "item", "5000", "blanket", "2023-10-07") ;
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO adoptionevents (eventid, evenetname, eventdate, location)
-> VALUES ("10", "compassion", "2023-07-12", "chennai"),
-> ("20", "orchids", "2023-07-12", "hyderabad"),
-> ("30", "pawed", "2023-03-30", "bangalore"),
-> ("40", "rescueops", "2023-09-22", "noida"),
-> ("50", "fourlegged", "2023-10-07", "delhi") ;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO participants (participantid, participantname, participanttype, eventid)
-> VALUES ("636", "andrew", "shelter", "10"),
-> ("431", "mike", "adopter", "20"),
-> ("987", "alice", "adopter", "30"),
-> ("333", "eric", "adopter", "40"),
-> ("744", "john", "adopter", "50")
-> ;
Query OK, 5 rows affected (0.02 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql>
```

5)

```
mysql> select petid,name,breed,type from pets where availableforadoption=1;
+-----+-----+-----+-----+
| petid | name  | breed      | type |
+-----+-----+-----+-----+
| 1     | doger | labro      | dog  |
| 3     | jacky | golden retriever | dog  |
| 4     | kat   | scottish   | cat  |
| 5     | roger | german shepard | dog  |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

6)

```
mysql> SELECT p.participantname, p.participanttype FROM participants p JOIN adoptionevents ae ON p.eventid = ae.eventid
WHERE ae.eventid = 20;
+-----+-----+
| participantname | participanttype |
+-----+-----+
| mike           | adopter        |
+-----+-----+
1 row in set (0.00 sec)
```

7)

8)

```
mysql> SELECT s.name AS ShelterName,SUM(d.donationamount) FROM shelters s LEFT JOIN donations d ON s.name = d.donationitem GROUP BY s.name;
+-----+-----+
| ShelterName | SUM(d.donationamount) |
+-----+-----+
| burrow      | NULL                  |
| red cross   | NULL                  |
| shell park  | NULL                  |
| mark avenue | NULL                  |
| tank street | NULL                  |
+-----+-----+
5 rows in set (0.00 sec)
```

9)

```
mysql> select name,breed,type,age from pets where petid is NULL;
Empty set (0.01 sec)

mysql>
```

10)

```
mysql> select year(donationdate),month(donationdate),sum(donationamount) from donations group by year(donationdate),month(donationdate) order by year(donationdate),month(donationdate);
```

year(donationdate)	month(donationdate)	sum(donationamount)
2023	5	5000
2023	6	8000
2023	9	5000
2023	10	5000
2023	11	10000

```
5 rows in set (0.00 sec)

mysql>
```

11)

```
mysql> select DISTINCT(breed) from pets where age between 1 and 3 or age > 5;
```

breed
house
golden retriever
scottish
german shepard

```
4 rows in set (0.00 sec)
```

12)

```
mysql> select * from pets where availableforadoption=1;
```

petid	name	age	breed	type	availableforadoption
1	doger	5	labro	dog	1
3	jacky	7	golden retriever	dog	1
4	kat	1	scottish	cat	1
5	roger	6	german shepard	dog	1

```
4 rows in set (0.00 sec)
```

13)

```
mysql> select count(participants.participantid),adoptionevents.eventname from adoptionevents,participants where adoptionevents.eventid=participants.eventid group by adoptionevents.eventid;
```

count(participants.participantid)	eventname
1	compassion
1	orchids
1	pawed
1	rescueops
1	fourlegged

```
5 rows in set (0.01 sec)

mysql>
```

```
mysql> select count(participants.participantid),adoptionevents.evenetname from adoptionevents,participants where
adoptionevents.location="chennai"and adoptionevents.eventid=participants.eventid group by adoptionevents.eventid;
```

count(participants.participantid)	evenetname
1	compassion

```
1 row in set (0.00 sec)
```

14)

```
mysql> select distinct(breed) from pets where age between 1 and 5;
```

breed
labro
house
scottish

```
3 rows in set (0.01 sec)
```

15)

```
mysql> select name,breed,type from pets where availableforadoption=0;
```

name	breed	type
rosy	house	cat

```
1 row in set (0.00 sec)
```

16)

```
mysql> SELECT a.evenetname, p.participantname FROM adoptionevents a JOIN participants p ON a.eventid = p.eventid;
```

evenetname	participantname
compassion	andrew
orchids	mike
pawed	alice
rescueops	eric
fourlegged	john

```
5 rows in set (0.00 sec)

mysql>
```

17)

```
mysql> SELECT s.shelterid,s.name ,s.location ,COUNT(p.petid) FROM shelters s LEFT JOIN pets p ON s.shelterid = p.availableforadoption GROUP BY s.shelterid, s.name, s.location;
```

shelterid	name	location	COUNT(p.petid)
11	burrow	chennai	0
22	red cross	kochi	0
33	shell park	mumbai	0
44	mark avenue	pune	0
55	tank street	delhi	0

5 rows in set (0.00 sec)

18)

```
mysql> SELECT p1.petid ,p1.name ,p1.breed ,p2.petid ,p2.name ,p2.breed FROM pets p1 JOIN pets p2 ON p1.petid < p2.petid AND p1.breed = p2.breed;
Empty set (0.00 sec)

mysql>
```

19)

```
mysql> SELECT s.shelterid AS ShelterID, s.name AS ShelterName,e.eventid AS EventID, e.evenetname FROM shelters s CROSS JOIN adoptionevents e;
```

ShelterID	ShelterName	EventID	evenetname
55	tank street	10	compassion
44	mark avenue	10	compassion
33	shell park	10	compassion
22	red cross	10	compassion
11	burrow	10	compassion
55	tank street	20	orchids
44	mark avenue	20	orchids
33	shell park	20	orchids
22	red cross	20	orchids
11	burrow	20	orchids
55	tank street	30	pawed
44	mark avenue	30	pawed
33	shell park	30	pawed
22	red cross	30	pawed
11	burrow	30	pawed
55	tank street	40	rescueops
44	mark avenue	40	rescueops
33	shell park	40	rescueops
22	red cross	40	rescueops
11	burrow	40	rescueops

20)


```
mysql> SELECT s.shelterid,s.name,COUNT(p.petid) FROM shelters s LEFT JOIN pets p ON s.
shelterid = p.availableforadoption GROUP BY s.shelterid, s.name ORDER BY COUNT(p.petid
) DESC LIMIT 1;
+-----+-----+-----+
| shelterid | name   | COUNT(p.petid) |
+-----+-----+-----+
|          11 | burrow |                0 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```