



## ANIMAL FRIENDS

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## Introducción.

Después de mucho tiempo haciendo el proyecto, Javier y Luismi podemos decir que ya lo hemos acabado.

Todo lo hemos ordenado según nos dijiste por Discord:

- El enunciado en inglés.
- El diagrama entidad-relación.
- El paso a tablas.
- El script SQL con todo lo que hemos hecho.

Hemos intentado que sea lo más diverso posible, por eso hemos hecho más inserts que los 9 que recomendabas y además hemos hecho 30 queries/selects para tener diversidad.

Todo este proyecto, está realizado en MariaDB y no en MySQL.

Si hay alguna query que no funciona, posiblemente sea por eso, este proyecto está testado para que funcione en MariaDB bajo el programa Dbeaver y funciona haciendo una pequeña modificación al Mysql Workbench para los updates/remove.

La modificación es desactivar la casilla "Safe Updates":

Edit – Preferences – Sql editor – Safe Updates.(abajo del todo)

Así funciona perfectamente.

Con mucho gusto, Javier y Luismi.

## Enunciado

Friends for the Protection of Animals of Granada has hired us to create a database that collect all the data of every section in their web site. The web site has the following sections: shop online, adoptions, donations, members, volunteers and canine residence. Users can register themselves indicating their NIE, name, surname, address, phone number, email and password, or if they are already registered, log in. Regular users can make occasional donations or become members in the members' section, where they can indicate the amount of money they want to pay, and the way they want to do it, monthly or yearly.

In the volunteers section, the already registered users will find the possibility to offer themselves as homes for abandoned dogs and cats till they find adoption. For this, the future volunteer will have to indicate the kind of housing they have and if they already own other pets. There is another type of volunteers that go to the facilities to help cleaning and feeding animals.

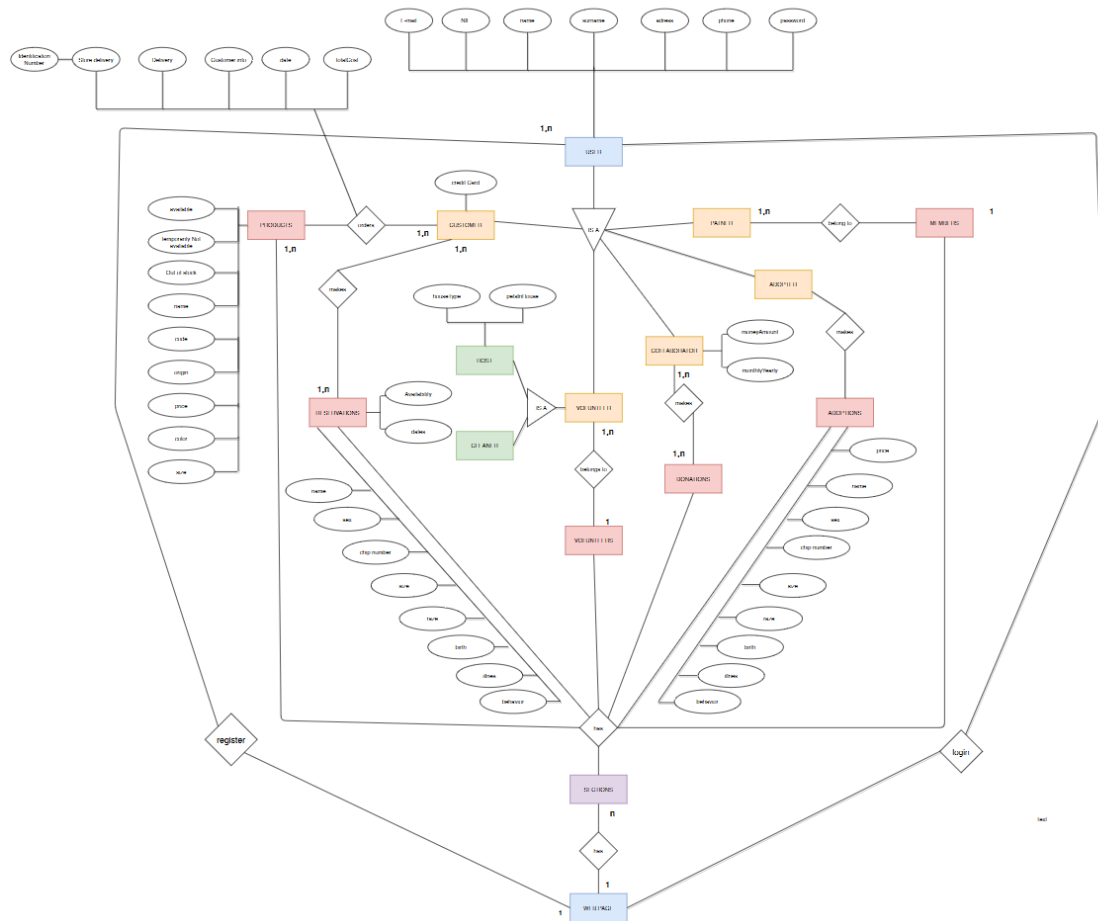
In the shop online section, you can find all the products that the society has. Each product has a value assigned depending on the availability: it will take available if it is ready for delivery, temporarily not available if it is not in stock but the society is waiting for new units to come in a short period of time or not available. Products also have other characteristics like name, code, origin, price, color and size.

Once customers have finished their order, they will get a sheet with all the order's details such as customer information, date of delivery and total cost. At the end, they will have the option to choose between delivery or store-delivery. If they choose the store-delivery option, they will be given an identification number to can track their order whenever the customer wants.

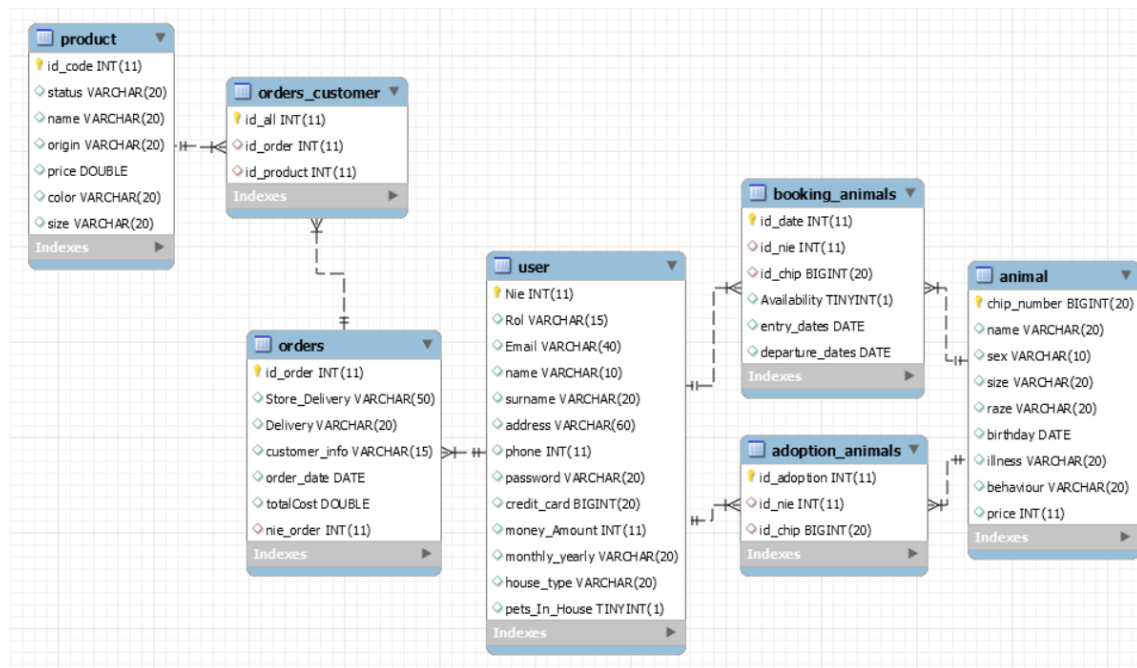
Society will save the credit card number of the customers in its database. In the canine residence, customers can leave their pets to be supervised when they cannot take care of them. Customers will select the entry and departure dates. If the residence counts with space enough in their facilities, it will be shown as available.

Other case, it will be shown as complete. Customers will have to give some information about the pets: name, sex, chip number, size, breed, race, color, date of birth, presence of illness and behavior and this will create a reservation. If users are interested in adopting an animal, they can select the animal they are interested in in the adoptions' section. Animals have the same attributes that pets but including a price, which will include all the costs involved in their vaccination and sterilization, and just in case, the date of death.

## Diagrama entidad-relación



## Paso a tablas



## Script SQL

### Create table

```
create table product(
```

```
    id_code int primary key,  
    status varchar(20),  
    name varchar(20),  
    origin varchar(20),  
    price double,  
    color varchar(20),  
    size varchar(20)
```

```
);
```

```
create table user(
```

```
    Nie int primary key,  
    Rol varchar(15),  
    Email varchar(40),  
    name varchar(10),  
    surname varchar(20),  
    address varchar(60),  
    phone int,  
    password varchar(20),  
    credit_card bigint,  
    money_Amount int,  
    monthly_yearly varchar(20),  
    house_type varchar(20),  
    pets_In_House boolean
```

```
);
```

```
create table animal(  
    chip_number bigint primary key,  
    name varchar(20),  
    sex varchar(10),  
    size varchar(20),  
    raze varchar(20),  
    birthday date,  
    illness varchar(20),  
    behaviour varchar(20),  
    price int  
);
```

```
create table adoption_animals(  
    id_adoption int primary key,  
    id_nie int,  
    id_chip bigint,  
    foreign key(id_nie) references user(nie) on delete cascade,  
    foreign key(id_chip) references animal(chip_number) on delete cascade  
);
```

```
create table booking_animals(  
    id_date int primary key,  
    id_nie int,  
    id_chip bigint,  
    Availability boolean,  
    entry_dates date,  
    departure_dates date,  
    foreign key(id_nie) references user(nie) on delete cascade,  
    foreign key(id_chip) references animal(chip_number) on delete cascade  
);
```



```
create table orders(  
    id_order int primary key,  
    Store_Delivery varchar(50),  
    Delivery varchar(20),  
    customer_info varchar(15),  
    order_date date,  
    totalCost double,  
    nie_order int,  
    foreign key(nie_order) references user(nie) on delete cascade  
);
```

```
create table orders_customer(  
    id_all int primary key,  
    id_order int,  
    id_product int,  
    foreign key(id_order) references orders(id_order) on delete cascade,  
    foreign key(id_product) references product(id_code) on delete cascade  
);
```

## INSERTS

insert into user values (11223344, 'Partner', 'Julio@gmail.com', 'Julio', 'Garcia', 'Avenida Cervantes 13, 3B', 666223344, 'helloworld22', 1122334455667788, null, null, null, false),  
(22334411, 'Host', 'Manolo@gmail.com', 'Manolo', 'Garcia', 'Pedro Antonio de Alarcon, 12 2A', 699112233, 'mynameismanolo', 2122113388559922, null, null, 'Piso', false),  
(87065641, 'Host', 'Juanjo@gmail.com', 'Juanjo', 'Izquierda', 'C/ Hoya de la Mora 22, 1C', 677228192, 'imprettygood', 2299851206215232, null, null, 'Chalet', true),  
(69286196, 'Adopter', 'Pepe@gmail.com', 'Pepe', 'Gomez', 'C/ Lavadero de la Reina, 3B', 666223344, 'badtothebone', 4269825171237186, null, null, null, null),  
(90125283, 'Collaborator', 'Jackson@gmail.com', 'Jackson', 'White', 'Gran Via 1, 3B', 666223344, '3dprinterishard', 3468244627146687, 10, 'Monthly', null, null),  
(76248511, 'Collaborator', 'Javi@gmail.com', 'Javi', 'Cruz', 'C/ Sancho Panza 2, 7D', 682601223, 'imnotalawyer', 2475809726234700, 3000, 'Yearly', null, null),  
(86192601, 'Customer', 'Lucio@gmail.com', 'Lucio', 'Garrido', 'C/ Don Juan, 1A', 681269012, 'lucioisthebest', 2058613082167689, null, null, null, null),  
(16394202, 'Customer', 'Loreto@yahoo.com', 'Loreto', 'Santiago', 'Avenida Andalucia 50, 3A', 611922049, 'scannerisnotbad', 3569832094734113, null, null, null, null),  
(32627512, 'Cleaner', 'Ataulfo@yahoo.com', 'Ataulfo', 'Colvin', 'Avenida Madrid 16, 2B', 698081226, 'iloveyoumelissa', 2496780593293777, null, null, null, null),  
(14785930, 'Partner', 'David@yahoo.com', 'David', 'Medina', 'Camino de Ronda 13, 3B', 698082370, 'strangerthings', 7860835820971342, null, null, null, null);

insert into animal values (112233335566778, 'Bruto', 'Male', '80 cm', 'Half Blood', '2013-9-25', null, 'Quiet', null),  
(965829374819634, 'Charlie', 'Male', '20 cm', 'Golden Retriever', '2013-9-25', 'Rabia', 'Quiet', 60),  
(429671906438217, 'Max', 'Male', '50 cm', 'Rottweiler', '2013-9-25', 'Leishmaniosis', 'Quiet', null),  
(358792507430912, 'Buddy', 'Male', '60 cm', 'Akita Inu', '2013-9-25', null, 'aggressive', 110),  
(857290723621146, 'Milo', 'Male', '50 cm', 'Bull Dog', '2013-9-25', null, 'aggressive', null),  
(790248593107192, 'Bella', 'Female', '20 cm', 'Beagle', '2013-9-25', 'Moquillo', 'aggressive', null),  
(357823070936136, 'Lucy', 'Female', '90 cm', 'Pit Bull', '2013-9-25', 'Mastitis', 'restless', 80),  
(782490578361671, 'Lola', 'Female', '70 cm', 'Shiba inu', '2013-9-25', 'Conjuntivitis', 'restless', 100),  
(578752049584912, 'Rosie', 'Female', '60 cm', 'Doberman', '2013-9-25', null, 'shy', 150),

(996479574982117, 'Ruby', 'Female', '20 cm', 'Yorkshire Terrier', '2013-9-25', null, 'shy', null),  
(996479574982116, 'Deisy', 'Female', '30 cm', 'Yorkshire Terrier', '2012-9-25', null, 'shy', 123),  
(996479574982115, 'Rubia', 'Female', '24 cm', 'Yorkshire Terrier', '2011-9-25', null, 'scary', 89),  
(996479574982114, 'Espe', 'Female', '21 cm', 'Yorkshire Terrier', '2016-9-25', null, 'scary', null),  
(996479574982124, 'Mesti', 'Female', '21 cm', 'Yorkshire Terrier', '2016-9-25', null, 'scary', null),  
(996479574982122, 'Mira', 'Female', '21 cm', 'Yorkshire Terrier', '2016-9-25', null, 'restless', null);

insert into adoption\_animals values (1, 11223344, 965829374819634),  
(2, 22334411, 358792507430912),  
(3, 87065641, 357823070936136),  
(4, 69286196, 782490578361671),  
(5, 69286196, 996479574982115),  
(6, 90125283, 578752049584912),  
(7, 90125283, 996479574982116);

insert into booking\_animals values (1, 76248511, 112233335566778,true,'2020-1-01','2020-1-12'),  
(2, 86192601, 429671906438217,true,'2020-1-22','2020-1-25'),  
(3, 16394202, 857290723621146,true,'2020-2-10','2020-2-20'),  
(4, 32627512, 790248593107192,true,'2020-3-1','2020-3-30'),  
(5, 14785930, 996479574982117,true,'2020-4-5','2020-4-13'),  
(6, 14785930, 996479574982114,true,'2020-4-5','2020-4-13'),  
(7, 32627512, 996479574982124,true,'2020-4-5','2020-4-13'),  
(8, 14785930, 996479574982122,true,'2020-4-5','2020-4-13'),  
(9, 16394202, 857290723621146,true,'2020-2-10','2020-2-20');

insert into product values(5789,"available","dog's coat","china",19.99,"red","L");

insert into product values(5790,"available","cat's cage","germany",35.99,"grew",null);

insert into product values(5791,"unavailable","dog's harnesses","china",9.99,"black","S");

```
insert into product values(5792,"available","dog's leads","china",12.49,"black/red",null);
insert into product values(5793,"available","cat's bed","germany",19.99,"red","M");
insert into product values(5794,"available","puppys's food 12Kg","Spain",29.99,null,null);
insert into product values(5795,"unnavailable","pet's gates","china",19.99,"white",null);
insert into product values(5796,"available","dog's bowls","china",6.49,"red",null);
```

```
insert into orders values(48459,"Your Best Friend","delivered",null,'20-04-05',26.48,69286196);
insert into orders values(79977,"Daily Pets","delivered",null,'20-02-02',19.99,69286196);
insert into orders values(57745,"Whiskas","detpached","Is a volunteer",'20-03-15',62.47,22334411);
insert into orders values(49777,"Whiskas","delivered",null,'20-01-20',35.99,90125283);
insert into orders values(25896,"Animal World","ready for delivery",null,'20-05-05',70.20,32627512);
insert into orders values(98665,"Your Pet","delivered","Is a volunteer",'20-03-30',12.49,14785930);
insert into orders values(74541,"Daily Pets","detpached",null,'20-02-10',69.98,87065641);
```

```
insert into orders_customer values(78965,79977,5789);
insert into orders_customer values(78887,48459,5795);
insert into orders_customer values(78886,48459,5796);
insert into orders_customer values(74489,57745,5792);
insert into orders_customer values(74490,57745,5793);
insert into orders_customer values(74491,57745,5794);
insert into orders_customer values(45465,49777,5790);
insert into orders_customer values(47896,25896,5796);
insert into orders_customer values(74477,98665,5792);
insert into orders_customer values(71119,74541,5790);
insert into orders_customer values(71120,74541,5790);
```

## SELECTS-QUERYS

-- select the names of the people who have left their dog for booking

```
select us.name,an.name from  
user as us, animal as an,booking_animals as boa where  
boa.id_nie=us.nie and boa.id_chip=an.chip_number;
```

-- select the names of people who have adopted a dog

```
select us.name,an.name from  
user as us, animal as an,adoption_animals as boa where  
boa.id_nie=us.nie and boa.id_chip=an.chip_number  
order by us.name asc;
```

-- select the names of people who have left for booking more than two or more dogs

```
select us.name,an.name,count(*) as 'Booking animals' from  
user as us, animal as an,booking_animals as boa where  
boa.id_nie=us.nie and boa.id_chip=an.chip_number  
group by boa.id_nie having count(*)>=2;
```

-- do a count to see how many people have left more dogs in order

```
select us.name,an.name,count(*) as 'Booking_animals' from  
user as us, animal as an,booking_animals as boa where  
boa.id_nie=us.nie and boa.id_chip=an.chip_number  
group by boa.id_nie;
```

-- Knowing which user makes payments and how much

```
select name,money_amount from user where money_amount is not null order by  
money_amount desc;
```

-- how to know which user has a chalet

```
select name,house_type from user where house_type="chalet";
```

-- how to know users that their name begins with L

select name from user where name LIKE 'L%';

-- select the email that are from yahoo

select email from user where email like '%@yahoo.com';

-- how to know what role the users have and what animals have left

select name,rol from user;

-- how to know that dogs were born in 2013

select name,birthday from animal where birthday between "2013-01-01" and "2013-12-31";

-- how to know the dogs that have names beginning with M

select name from animal where name LIKE 'M%';

-- how to know the biggest dog and sort it out

select name,size from animal order by size desc;

-- how to know that dogs have a disease

select name,illness from animal where illness is not null;

-- how to know what behaviour dogs have

select name,behaviour from animal;

-- how to know what dogs were left behind in 2020

select us.name,an.name,boa.entry\_dates from  
user as us, animal as an, booking\_animals as boa where  
boa.entry\_dates>="2020-1-1" and  
boa.entry\_dates<="2020-12-30";

-- select which dog and its owner has been in reserve the longest

```
select us.name,an.name,datediff(boa.departure_dates,boa.entry_dates) as 'Duration' from
user as us, animal as an, booking_animals as boa where
boa.id_chip=an.chip_number and
boa.id_nie=us.nie
order by duration desc;
```

-- select the customer who made the most expensive order

```
select user.name from orders,user where user.nie=orders.nie_order and orders.order_date
between '20-02-10' and '20-04-10' ;
```

-- Select the user who made the most expensive order

```
select user.name,max(totalCost) from orders,user where user.nie=orders.nie_order ;
```

-- Select all the shops where customers made an order

```
select distinct Store_Delivery from orders;
```

-- Select the total amount of the all orders

```
select sum(totalCost) from orders;
```

-- Select all the products wich have been delivered

```
select product.name from product,orders,orders_customer where
product.id_code=orders_customer.id_product
and orders_customer.id_order=orders.id_order and Delivery="delivered";
```

-- Select all customers who bought something in Whiskas

```
select distinct user.name from orders,user where user.nie=orders.nie_order
and Store_delivery="Whiskas" ;
```

-- Select all customers who bought something in China

```
select user.name from user,product,orders,orders_customer where
user.nie=orders.nie_order and product.id_code=orders_customer.id_product
```

and orders\_customer.id\_order=orders.id\_order and product.origin="germany";

-- Select all product wich came from China

select distinct product.name from product,orders,orders\_customer where  
product.id\_code=orders\_customer.id\_product

and orders\_customer.id\_order=orders.id\_order and product.origin="china";

-- select the cheapest product

select product.name,min(price) from product;

-- select all products wich are not available

select product.name from product where status="unavailable";

-- select the size of the dog's coat

select size from product where product.name ="dog's coat";

-- select the color of the cat's cage

select color from product where product.name ="cat's cage";

-- select the date where the puppys's food 12Kg was ordered

select order\_date from product,orders,orders\_customer where  
product.id\_code=orders\_customer.id\_product

and orders\_customer.id\_order=orders.id\_order and product.name="puppys's food 12Kg";

-- select the number of orders who made all customers

select user.name,count(orders\_customer.id\_order) from user,product,orders,orders\_customer  
where

user.nie=orders.nie\_order and

product.id\_code=orders\_customer.id\_product

and orders\_customer.id\_order=orders.id\_order group by user.name;



## UPDATE AND DELETE

update user set surname="Lobezno" where nie=90125283;

update user set Email="Juanjo@yahoo.com" where nie=87065641;

update user set phone=677228192 where nie=87065641;

update animal set raza="Doberman" where chip\_number=996479574982116;

update animal set price=300 where chip\_number=965829374819634;

update animal set name="Thor" where chip\_number=996479574982124;

update adoption\_animals set id\_nie="90125283" where id\_adoption=2;

update adoption\_animals set id\_nie="69286196" where id\_adoption=3;

update booking\_animals set availability=false where id\_date=4;

update booking\_animals set departure\_dates='2020-6-20' where id\_date=5;

update orders set delivery="delivered" where id\_order=74541 ;

update orders set customer\_info="Is a volunteer" where nie\_order=87065641 ;

update orders set store\_delivery="Whiskas" where id\_order=74541 ;

update product set price=6.99 where name ="dog's bowls";

update product set color="blue" where name ="dog's bowls";

update product set size="M" where name = "dog's coat";

delete from adoption\_animals where id\_adoption=2;

delete from animal where chip\_number=358792507430912;

delete from booking\_animals where id\_date=2;

delete from booking\_animals where id\_date=3;

delete from adoption\_animals where id\_adoption=1;

delete from user where nie=11223344;

```
delete from orders_customer where id_all=78887;
```

```
delete from product where name ="pet's gates";
```

```
delete from orders_customer where id_all=78965;
```

```
delete from product where name ="dog's coat";
```