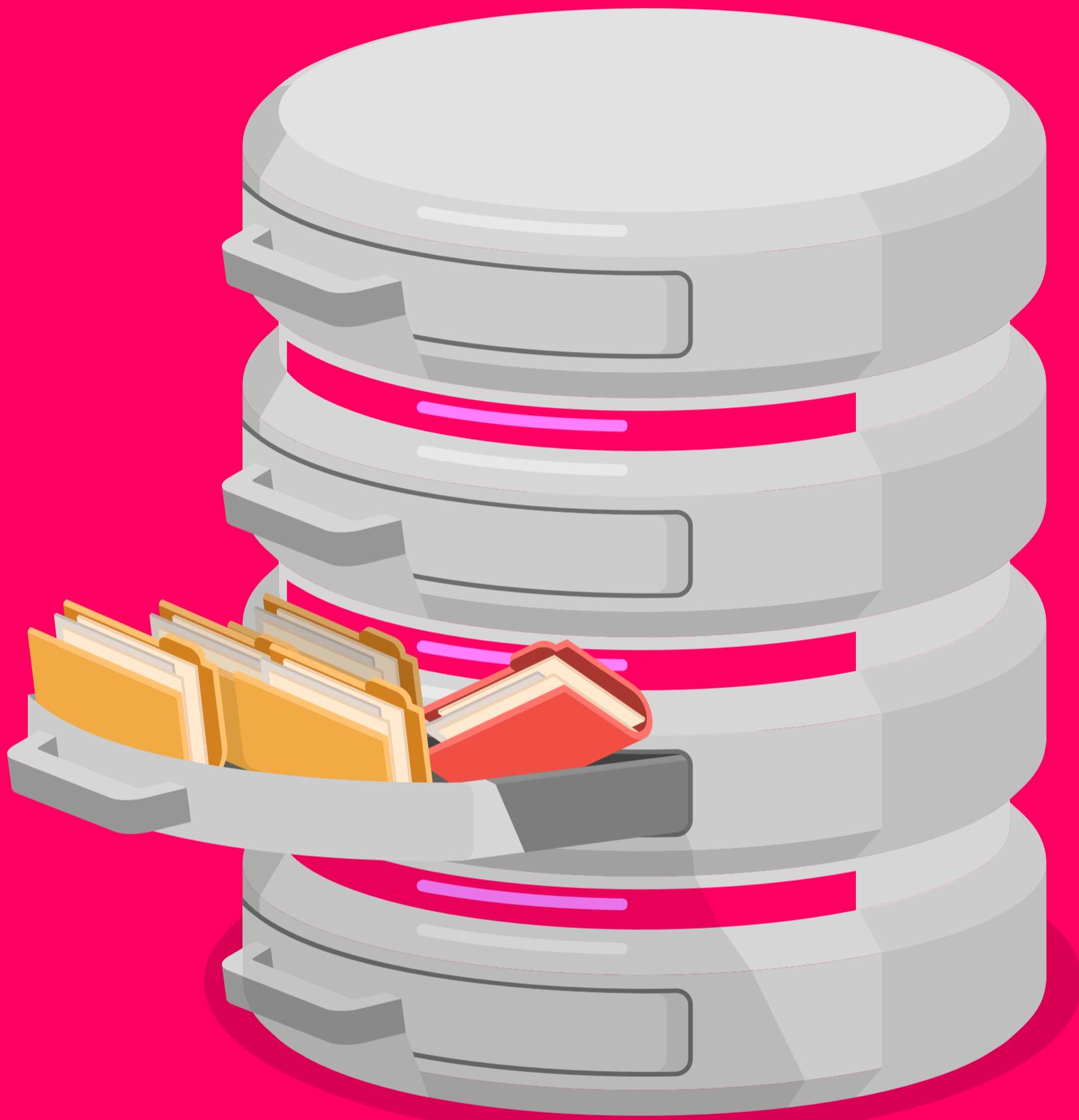




El futuro digital
es de todos

MinTIC



Script de base de datos

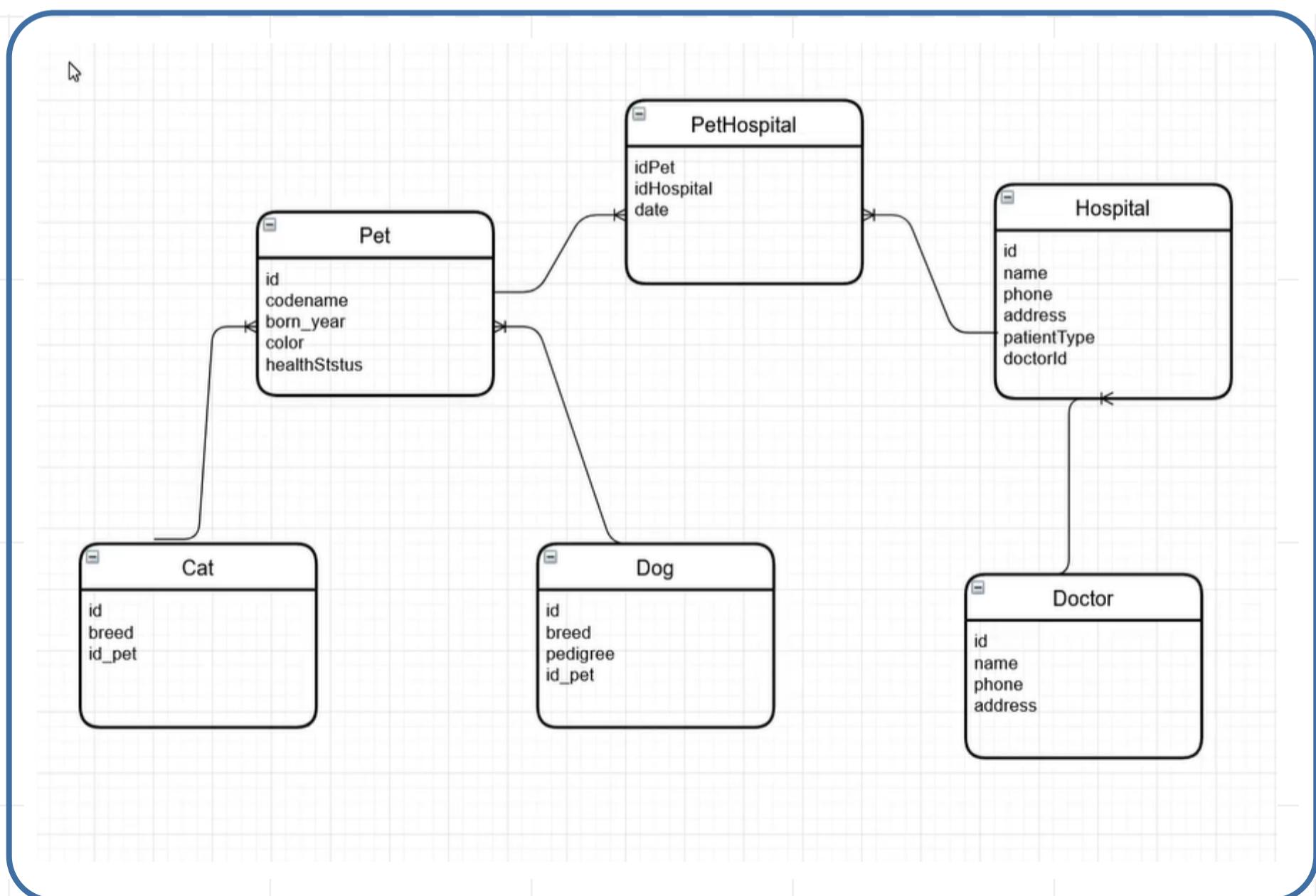


Universidad de Caldas

Hola:

Una vez explicado el diseño del modelo entidad-relación para la base de datos que será construido en Mysql, será necesario escribir el código con el cual se crearán las estructuras de las tablas y las correspondientes relaciones entre ellas. Además, se adicionarán una serie de restricciones si es necesario y para ello se usará el administrador de Mysql que ya se ha configurado.

Video de creación de las tablas del modelo entidad-relación



The screenshot shows the phpMyAdmin interface for a MySQL server at 127.0.0.1. The left sidebar lists databases: Nueva, information_schema, mascotasbd, mysql, notificacioneslucernabd, performance_schema, phpmyadmin, and test. The main panel is titled "Bases de datos" and shows a table of existing databases. A form at the top right allows creating a new database named "administracionMascotasBD" with character set "utf8mb4_general_ci". Below the table, a note says: "Nota: Activar aquí las estadísticas de la base de datos podría causar tráfico pesado entre el servidor web y el servidor MySQL." A red box highlights the "Crear" button.

The screenshot shows the phpMyAdmin interface for the "administracionmascotasbd" database. The left sidebar lists databases: Nueva, administracionmascotasbd, information_schema, mascotasbd, mysql, notificacioneslucernabd, performance_schema, phpmyadmin, and test. The main panel has tabs for Estructura, SQL, Buscar, Generar una consulta, Exportar, Importar, and Más. The SQL tab contains the following SQL code:

```
1 CREATE TABLE tb_doctor(
2     id int AUTO_INCREMENT primary key,
3     name varchar(150) not null,
4     phone varchar(20) not null,
5     address varchar(100) not null
6 )
```

A red box highlights the "Continuar" button at the bottom right of the SQL editor.

The screenshot shows the phpMyAdmin interface for the database 'administracionmascotasbd'. The left sidebar lists databases like 'administracionmascotasbd', 'information_schema', 'mascotasbd', etc. The main area shows the SQL tab with the following code:

```
CREATE TABLE tb_doctor( id int AUTO_INCREMENT primary key, name varchar(150) not null, phone varchar(20) not null, address varchar(100) not null )
```

A green success message at the top indicates: "MySQL ha devuelto un conjunto de valores vacío (es decir: cero columnas). (La consulta tardó 0,0204 segundos.)". Below the message are edit and code creation buttons.

This screenshot shows the continuation of table creation. The SQL tab contains the following code for the 'tb_pet' table:

```
1 CREATE TABLE tb_pet(
2     id int AUTO_INCREMENT primary key,
3     code varchar(3) not null,
4     name varchar(50) not null,
5     born_year int not null,
6     color varchar(20) not null,
7     health_status int not null
8 )
```

A green success message at the top indicates: "MySQL ha devuelto un conjunto de valores vacío (es decir: cero columnas). (La consulta tardó 0,0204 segundos.)". A checkbox labeled "Habilite la revisión de las claves foráneas" is checked. At the bottom are "Continuar" and "Cancelar" buttons, along with edit and code creation buttons.

The screenshot shows the phpMyAdmin interface for the 'administracionmascotasbd' database. The left sidebar lists databases and tables. The main area displays the structure of the 'tb_doctor' table, which has 0 rows and 0 columns. The 'Filros' (Filters) section contains a search bar for filtering results. Below the table list, there are buttons for 'Imprimir' (Print) and 'Diccionario de datos' (Data Dictionary). A 'Crear tabla' (Create Table) button is also visible.

The screenshot shows the phpMyAdmin interface with the 'SQL' tab selected. A modal window titled 'Ejecutar la(s) consulta(s) SQL en la base de datos administracionmascotasbd:' is open, containing the following SQL code:

```
1 CREATE TABLE tb_cat(
2     id int AUTO_INCREMENT primary key,
3     breed varchar(30) not null,
4     id_pet int not null,
5     foreign KEY (id_pet) REFERENCES tb_pet(id)
6 )|
```

Below the modal, there are buttons for 'Limpiar' (Clear), 'Formato' (Format), and 'Obtener consulta almacenada automáticamente' (Get automatically stored query). The bottom of the screen shows the 'Consola' (Console) tab.

The screenshot shows the phpMyAdmin interface for the database 'administracionmascotasbd'. The left sidebar lists databases like 'administracionmascotasbd' and tables such as 'tb_cat', 'tb_doctor', and 'tb_pet'. The main area has tabs for 'Estructura', 'SQL', 'Buscar', 'Generar una consulta', 'Exportar', 'Importar', and 'Más'. A modal window titled 'Ejecutar la(s) consulta(s) SQL en la base de datos administracionmascotasbd:' contains the following SQL code:

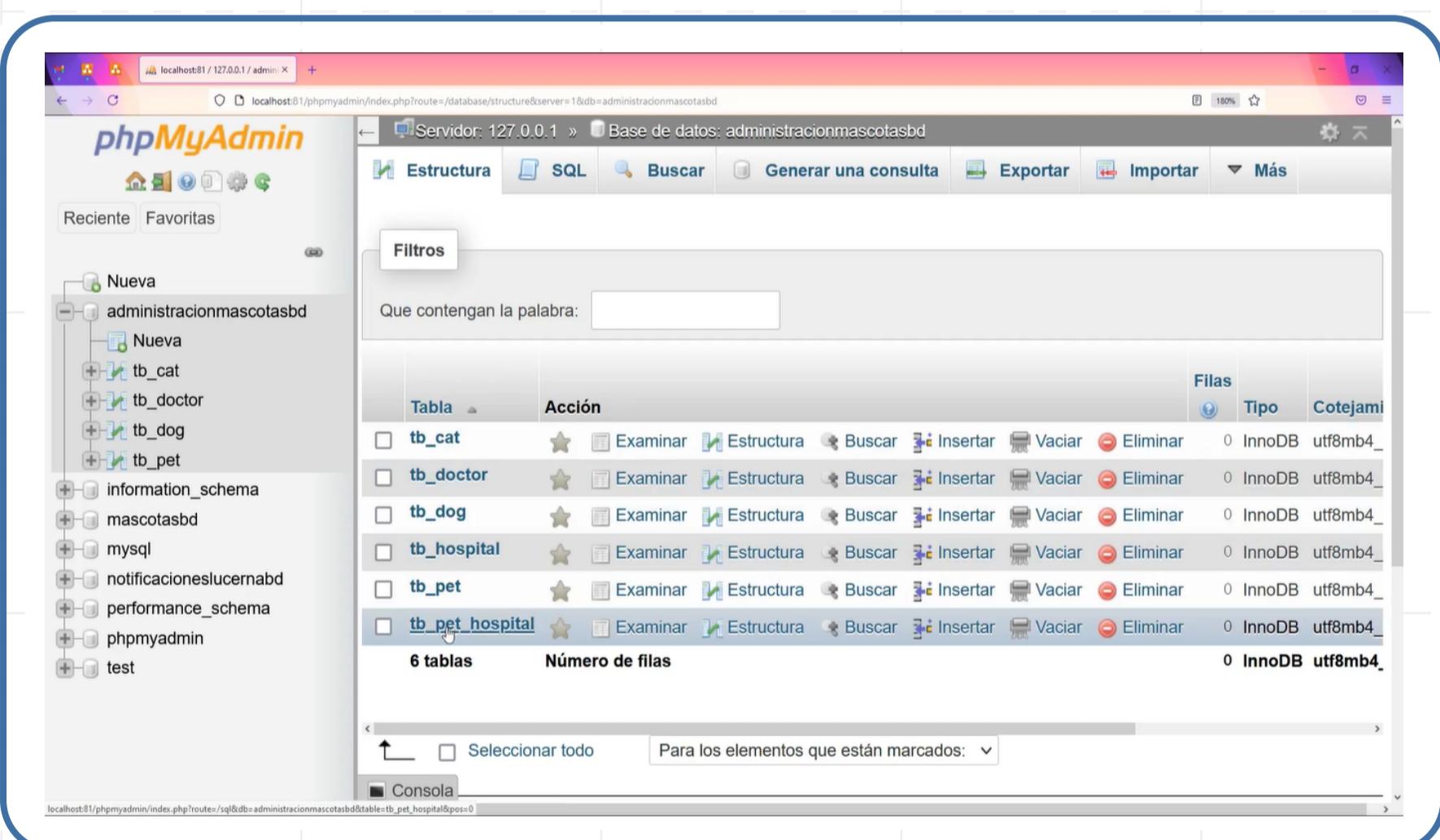
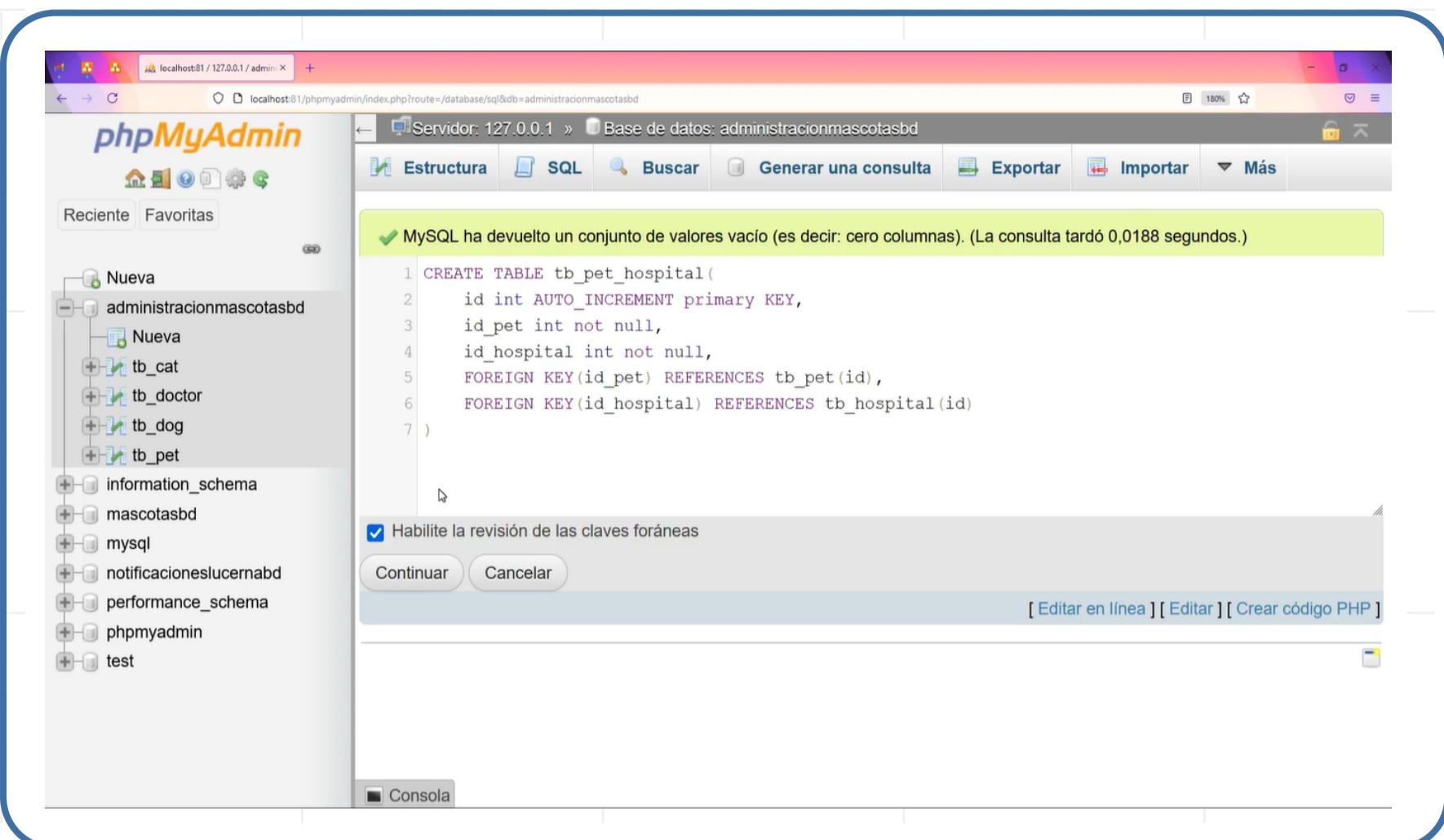
```
1 CREATE TABLE tb_dog(
2     id int AUTO_INCREMENT primary KEY,
3     breed varchar(30) not null,
4     pedigree boolean not null default 0,
5     id_pet int not null,
6     FOREIGN KEY(id_pet) REFERENCES tb_pet(id)
7 )
```

Below the modal are buttons for 'Limpiar', 'Formato', 'Obtener consulta almacenada automáticamente', and checkboxes for 'Consola' and 'Parámetros'.

The screenshot shows the phpMyAdmin interface for the database 'administracionmascotasbd'. The left sidebar lists databases and tables. The main area has tabs for 'Estructura', 'SQL', 'Buscar', 'Generar una consulta', 'Exportar', 'Importar', and 'Más'. A modal window titled 'Mostrar ventana de consultas SQL' displays a success message: 'MySQL ha devuelto un conjunto de valores vacío (es decir: cero columnas). (La consulta tardó 0,0210 segundos.)'. It contains the following SQL code:

```
1 CREATE TABLE tb_hospital(
2     id int AUTO_INCREMENT primary KEY,
3     name varchar(50) not null,
4     phone varchar(20) not null default 0,
5     address varchar(50) not null,
6     patient_type int not null,
7     id_doctor int not null,
8     FOREIGN KEY(id_doctor) REFERENCES tb_doctor(id)
9 )
```

The modal also includes a checked checkbox for 'Habilite la revisión de las claves foráneas' and buttons for 'Continuar' and 'Cancelar'. At the bottom are links for '[Editar en línea]', '[Editar]', and '[Crear código PHP]'.



Ya conocemos cómo analizar y construir un diagrama entidad-relación y, además, convertirlo en código para definir el esquema de la base de datos. Los invitamos a que pongan en práctica este nuevo conocimiento en la solución del reto de la semana.



**Mision
TIC2022**

The logo features the text "Mision TIC2022" in a bold, sans-serif font. The word "Mision" is in blue, "TIC" is in red, and "2022" is in blue. A red curved line starts from the top of the letter "i" in "Mision" and ends at the bottom of the letter "c" in "TIC". The background of the logo is a white circle with a gray dotted pattern, set against a dark red circular border.

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