

Tarea 3.6 Entornos de Desarrollo (MySQL)

1º) Crea las siguientes tablas :

```
alumno@1DAW-04: ~$ mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database Actividades;
Query OK, 1 row affected (0.00 sec)

mysql> use Actividades;
Database changed
mysql> create table Coches (
  ->   Matricula_Coche varchar(8) primary key,
  ->   Marca varchar(15),
  ->   Fecha_Fabricacion integer(4)
  -> );
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> create table Mecanicos (
  ->   DNI_Mecanico varchar(9) primary key,
  ->   Nombre varchar(15),
  ->   Puesto varchar(15),
  ->   Parcial varchar(1)
  -> );
Query OK, 0 rows affected (0.01 sec)

mysql> create table Trabajos (
  ->   Matricula_Coche varchar(8) foreign key Coches(Matricula_Coche),
  ->   DNI_Mecanico varchar(9) foreign key Mecanicos(DNI_Mecanico),
  ->   Horas float(3,1),
  ->   Fecha_Reparacion date
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'foreign key Coches(Matricula_Coche),
DNI_Mecanico varchar(9) foreign key Mecanico' at line 2
mysql> create table Trabajos (
  ->   Matricula_Coche varchar(8) foreign key references Coches(Matricula_Coche),
  ->   DNI_Mecanico varchar(9) foreign key references Mecanicos(DNI_Mecanico),
  ->   Horas float(3,1),
  ->   Fecha_Reparacion date
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'foreign key references Coches(Matricula_Coche),
DNI_Mecanico varchar(9) foreign ' at line 2
mysql> create table Trabajos (
  ->   Matricula_Coche varchar(8) references Coches(Matricula_Coche),
  ->   DNI_Mecanico varchar(9) references Mecanicos(DNI_Mecanico),
  ->   Horas float(3,1),
  ->   Fecha_Reparacion date
  -> );
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql>
```

2º) Modificación de las tablas anteriores :

```
alumno@1DAW-04:~$ sudo mysql
[sudo] password for alumno:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Actividad6;
Reading table information for completion of table and column names
You can turn off this feature with -A

Database changed
mysql> alter table Coches add (
  -> Modelo varchar(15)
  -> );
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table Trabajos drop foreign key Matricula_Coche;
ERROR 1061 (42000): Can't DROP 'Matricula_Coche'; check that column/key exists
mysql> alter table Trabajos add (
  -> primary key (Matricula_Coche,DNI_Mecanico)
  -> );
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table Trabajos add (
  -> DNI_Mecanico references Mecanicos(DNI_Mecanico)
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'references Mecanicos(DNI_Mecanico)' at line 2
mysql> alter table Trabajos add (
  -> Foreign key DNI_Mecanico references Mecanicos(DNI_Mecanico)
  -> );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'references Mecanicos(DNI_Mecanico)' at line 2
mysql> alter table Trabajos add (
  -> foreign key (DNI_Mecanico) references Mecanicos(DNI_Mecanico)
  -> );
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

3º) Realizar en SQL los siguientes ejercicios :

```
alumno@1DAW-04:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.35-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database Biblioteca;
Query OK, 1 row affected (0.00 sec)

mysql> use Biblioteca;
Database changed
mysql> create table Libro (
  -> Codigo varchar(1) primary key,
  -> Autor varchar(15),
  -> Titulo varchar (30),
  -> Editor varchar(15),
  -> Clase varchar(15),
  -> Prestamo varchar(1)
  -> );
Query OK, 0 rows affected (0.01 sec)

mysql> create table Usuario (
  -> Secuencia varchar(1) primary key,
  -> Nombre varchar(15),
  -> Direccion varchar(30),
  -> Fecha_Ingreso date not null
  -> );
Query OK, 0 rows affected (0.02 sec)

mysql> create table Clase (
  -> Clave varchar(8) primary key,
  -> Tiempo_Prestamo integer(2),
  -> Clase varchar(15) references Libro(Clase)
  -> );
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> create table Prestamo (
  -> Codigo varchar(1) references Libro(Codigo),
  -> Secuencia varchar(1) references Usuario(Secuencia),
  -> Fecha_Inicio date
  -> );
Query OK, 0 rows affected (0.01 sec)

mysql> alter table Usuario add (
  -> Sexo varchar(1)
  -> );
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table Libro add (
  -> Indice int
  -> );
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```