
	Bases de datos		1º DAM
	Tema 1 – Los sistemas de almacenamiento de la información		Práctica
			Nº--
NOMBRE: Alonso Marrero Bello			

1

```
C:\Users\alons>mysql -u root -p --prompt="Alonso[(\d)]>
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statemen
t.

Alonso[((none))]>|
```

2

```
Alonso[((none))]>SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
6 rows in set (0.00 sec)
```

3



```
Alonso[((none))]>SHOW CREATE DATABASE sakila
-> ;
+-----+-----+
| Database | Create Database |
+-----+-----+
| sakila | CREATE DATABASE `sakila` /*!40100 DEFAULT CHARACTER SET utf8mb4
COLLATE utf8mb4_0900_ai_ci */ /*!80016 DEFAULT ENCRYPTION='N' */ |
+-----+-----+
1 row in set (0.00 sec)
```

Indica el juego de caracteres y el collation utilizados

4

```
Alonso[((none))]>USE sakila
Database changed
```

-



	Bases de datos			1º DAM
	Tema 1 – Los sistemas de almacenamiento de la información			Práctica
				Nº--
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5

```
Alonso[(sakila)]>SHOW TABLES
-> ;
+-----+
| Tables_in_sakila |
+-----+
| actor              |
| actor_info         |
| address            |
| category           |
| city               |
| country            |
| customer           |
| customer_list      |
| film               |
| film_actor         |
| film_category      |
| film_list          |
| film_text          |
| inventory          |
| language           |
| nicer_but_slower_film_list |
| payment            |
| rental             |
| sales_by_film_category |
| sales_by_store     |
| staff              |
| staff_list         |
| store              |
+-----+
23 rows in set (0.02 sec)
```

6

```
Alonso[(sakila)]>DESCRIBE customer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type                | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| customer_id | smallint unsigned   | NO   | PRI | NULL     | auto_increment |
| store_id    | tinyint unsigned    | NO   | MUL | NULL     |                 |
| first_name  | varchar(45)         | NO   |     | NULL     |                 |
| last_name   | varchar(45)         | NO   | MUL | NULL     |                 |
| email       | varchar(50)         | YES  |     | NULL     |                 |
| address_id  | smallint unsigned   | NO   | MUL | NULL     |                 |
| active      | tinyint(1)          | NO   |     | 1        |                 |
| create_date | datetime             | NO   |     | NULL     |                 |
| last_update | timestamp            | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED on update CURRENT_TIMESTAMP |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

	Bases de datos		1º DAM
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			Nº--
NOMBRE: Alonso Marrero Bello			

7

```
Alonso[(sakila)]>SHOW CREATE TABLE customer
-> ;

+-----+
| Table | Create Table |
+-----+
| customer | CREATE TABLE `customer` (
  `customer_id` smallint unsigned NOT NULL AUTO_INCREMENT,
  `store_id` tinyint unsigned NOT NULL,
  `first_name` varchar(45) NOT NULL,
  `last_name` varchar(45) NOT NULL,
  `email` varchar(50) DEFAULT NULL,
  `address_id` smallint unsigned NOT NULL,
  `active` tinyint(1) NOT NULL DEFAULT '1',
  `create_date` datetime NOT NULL,
  `last_update` timestamp NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (`customer_id`),
  KEY `idx_fk_store_id` (`store_id`),
  KEY `idx_fk_address_id` (`address_id`),
  KEY `idx_last_name` (`last_name`),
  CONSTRAINT `fk_customer_address` FOREIGN KEY (`address_id`) REFERENCES `address` (`address_id`) ON DELETE RESTRICT ON UPDATE CASCADE,
  CONSTRAINT `fk_customer_store` FOREIGN KEY (`store_id`) REFERENCES `store` (`store_id`) ON DELETE RESTRICT ON UPDATE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=600 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
```

El campo con primary key es customer_id

InnoDB



utf8mb4

1

```
Alonso[(none)]>CREATE DATABASE Practica1SQL
-> ;
Query OK, 1 row affected (0.02 sec)
```



2

```
Alonso[(practica1sql)]>show tables
-> ;
Empty set (0.03 sec)
```

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	Tema 1 – Los sistemas de almacenamiento de la información			Práctica
				Nº--
NOMBRE: Alonso Marrero Bello				

1

```
Alonso[(Practica1SQL)]>CREATE TABLE ACTOR(
-> Actor_id INT AUTO_INCREMENT PRIMARY KEY,
-> Nombre VARCHAR(20),
-> Apellidos VARCHAR(45),
-> Fecha TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
-> Saldo INT
-> );
Query OK, 0 rows affected (0.04 sec)
```

	Bases de datos		1º DAM
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2

```
Alonso[(Practica1SQL)]>DESCRIBE ACTOR
-> ;
```

Field	Type	Null	Key	Default	Extra
Actor_id	int	NO	PRI	NULL	auto_increment
Nombre	varchar(20)	YES		NULL	
Apellidos	varchar(45)	YES		NULL	
Fecha	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
Saldo	int	YES		NULL	

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

3

CHARSET=utf8mb4

4

```
Alonso[(Practica1SQL)]>ALTER TABLE ACTOR CONVERT TO CHARACTER SET utf32 COLLATE utf32_spanish_ci;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

5

```
Alonso[(Practica1SQL)]>SHOW TABLES
-> ;
```

Tables_in_practica1sql
actor

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

6

```
Alonso[(Practica1SQL)]>RENAME TABLE Actor TO Actores;
Query OK, 0 rows affected (0.02 sec)
```



7

```
Alonso[(Practica1SQL)]>ALTER TABLE actores RENAME COLUMN Fecha TO Fecha_nacimiento;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

Alonso[(Practica1SQL)]>ALTER TABLE actores MODIFY COLUMN Fecha_nacimiento DATE CHECK (Fecha_nacimiento > '1980-10-10');
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

8

```
Alonso[(Practica1SQL)]>ALTER TABLE actores ADD COLUMN Ultima_actualizacion TIMESTAMP DEFAULT CURRENT_TIMESTAMP;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

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9

```
Alonso[(Practica1SQL)]>ALTER TABLE actores ADD COLUMN Ciudad VARCHAR(20) AFTER Actor_id;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

10

```
Alonso[(Practica1SQL)]>ALTER TABLE actores DROP COLUMN Ciudad;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

11

```
Alonso[(Practica1SQL)]>ALTER TABLE actores MODIFY COLUMN Apellidos VARCHAR(50);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

12

```
Alonso[(Practica1SQL)]>DESCRIBE Actores;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Actor_id | int | NO | PRI | NULL | auto_increment |
| Nombre | varchar(20) | YES | | NULL | |
| Apellidos | varchar(50) | YES | | NULL | |
| Fecha_nacimiento | date | YES | | NULL | |
| Saldo | int | YES | | NULL | |
| Ultima_actualizacion | timestamp | YES | | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

13

```
Alonso[(Practica1SQL)]>DROP TABLE Actores;
Query OK, 0 rows affected (0.02 sec)
```

14

```
Alonso[(Practica1SQL)]>show tables;
Empty set (0.00 sec)
```

15

```
Alonso[(Practica1SQL)]>DROP DATABASE practica1sql
-> ;
Query OK, 0 rows affected (0.01 sec)
```