

# ESCUELA POLITECNICA NACIONAL

## BASES DE DATOS

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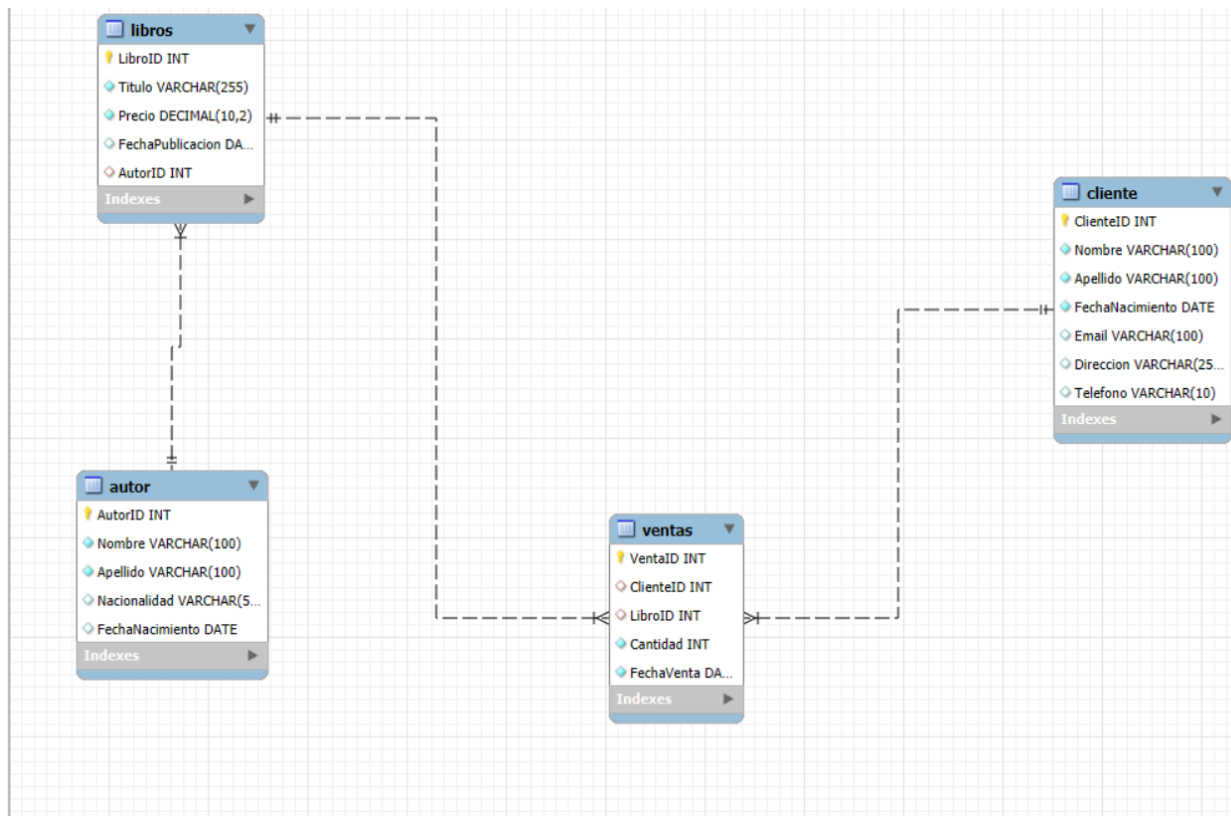
### PARTE 1 - SCRIPT

The screenshot displays the MySQL Workbench interface. The 'Query 1' window shows a SQL script for creating a database named 'libreria' and two tables: 'Libros' and 'Ventas'.

```
-- Tabla Libros
23
24 CREATE TABLE Libros (
25     LibroID INT AUTO_INCREMENT PRIMARY KEY,
26     Titulo VARCHAR(255) NOT NULL,
27     Precio DECIMAL(10,2) NOT NULL,
28     FechaPublicacion DATE,
29     AutorID INT,
30     FOREIGN KEY (AutorID) REFERENCES Autor(AutorID)
31 );
32
33 -- Tabla de ventas (asociando solo un libro por venta)
34 CREATE TABLE Ventas (
35     VentaID INT AUTO_INCREMENT PRIMARY KEY,
36     ClienteID INT,
37     LibroID INT, -- Solo se puede registrar un libro por venta.
38     Cantidad INT NOT NULL,
39     FechaVenta DATE NOT NULL,
40     FOREIGN KEY (ClienteID) REFERENCES Cliente(ClienteID),
41     FOREIGN KEY (LibroID) REFERENCES Libros(LibroID)
42 );
```

The 'Output' window shows the execution results of the script. The first two queries (16 and 17) were successful. The third query (18) failed with Error Code 1007: Can't create database 'libreria'; database exists. The fourth query (19) was successful. The fifth query (20) failed with Error Code 1824: Failed to open the referenced table 'libro'. The sixth query (21) was successful.

#	Time	Action	Message	Duration / Fetch
16	00:43:44	CREATE DATABASE libreria	Error Code: 1007: Can't create database 'libreria'; database exists	0.000 sec
17	00:43:49	CREATE TABLE Cliente ( ClienteID INT AUTO_INCREMENT PRIMARY KEY, Nombre VARCHAR(100) NOT NULL )	0 row(s) affected	0.032 sec
18	00:45:44	CREATE TABLE Autor ( AutorID INT AUTO_INCREMENT PRIMARY KEY, Nombre VARCHAR(100) NOT NULL )	0 row(s) affected	0.031 sec
19	00:49:43	CREATE TABLE Libros ( LibroID INT AUTO_INCREMENT PRIMARY KEY, Titulo VARCHAR(255) NOT NULL )	0 row(s) affected	0.032 sec
20	00:52:29	CREATE TABLE Ventas ( VentaID INT AUTO_INCREMENT PRIMARY KEY, ClienteID INT, LibroID INT, ... )	Error Code: 1824: Failed to open the referenced table 'libro'	0.016 sec
21	00:52:49	CREATE TABLE Ventas ( VentaID INT AUTO_INCREMENT PRIMARY KEY, ClienteID INT, LibroID INT, ... )	0 row(s) affected	0.047 sec



## PARTE 2 – REGISTROS POR TABLA

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

libreria

- autor
- cliente
- libros
- ventas

Query 1 x libreria - Schema

```

44 INSERT INTO Cliente (Nombre, Apellido, FechaNacimiento, Email, Direccion, Telefono) VALUES
45 ('Juan', 'Pérez', '1990-05-12', 'juan.perez@example.com', 'Calle Falsa 123', '0991234567'),
46 ('María', 'Gómez', '1985-08-20', 'maria.gomez@example.com', 'Av. Libertad 456', '0987654321'),
47 ('Carlos', 'López', '2000-01-01', 'carlos.lopez@example.com', 'Calle 10 de Agosto', '0976543210'),
48 ('Ana', 'Martínez', '1995-03-15', 'ana.martinez@example.com', 'Av. América 890', '0965432109'),
49 ('Lucía', 'Ramírez', '1988-11-30', 'lucia.ramirez@example.com', 'Av. Amazonas 567', '0954321098');
50
  
```

Result Grid

ClienteID	Nombre	Apellido	FechaNacimiento	Email	Direccion	Telefono
1	Juan	Pérez	1990-05-12	juan.perez@example.com	Calle Falsa 123	0991234567
2	María	Gómez	1985-08-20	maria.gomez@example.com	Av. Libertad 456	0987654321
3	Carlos	López	2000-01-01	carlos.lopez@example.com	Calle 10 de Agosto	0976543210
4	Ana	Martínez	1995-03-15	ana.martinez@example.com	Av. América 890	0965432109
5	Lucía	Ramírez	1988-11-30	lucia.ramirez@example.com	Av. Amazonas 567	0954321098

Client 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
27	01:00:07	CREATE DATABASE libreria	Error Code: 1007. Can't create database 'libreria'; database exists	0.000 sec
28	01:00:39	INSERT INTO Cliente (Nombre, Apellido, FechaNacimiento, Email, Direccion, Telefono) VALUES ('Juan', 'Pérez', '1990-05-12', 'juan.perez@example.com', 'Calle Falsa 123', '0991234567')	Error Code: 1062. Duplicate entry 'juan.perez@example.com' for key 'cliente Email'	0.000 sec
29	01:00:49	INSERT INTO Autor (Nombre, Apellido, Nacionalidad, FechaNacimiento) VALUES ('Gabriel', 'García Márquez', 'Colombiano', '1928-03-22')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
30	01:00:56	INSERT INTO Libros (Titulo, Precio, FechaPublicacion, AutorID) VALUES ('Cien años de soledad', 19.99, '1965-05-06', 1)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
31	01:01:00	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, '2024-05-01'), (2, 1, 1, '2024-05-02')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
32	01:02:01	SELECT * FROM Cliente LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

libreria

- autor
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- cliente
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- libros
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- ventas
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- Views
- Stored Procedures
- Functions
- sys

Query 1 x libreria - Schema

Limit to 1000 rows

```
51 INSERT INTO Autor (Nombre, Apellido, Nacionalidad, FechaNacimiento) VALUES
52 ('Gabriel', 'García Márquez', 'Colombiana', '1927-03-06'),
53 ('Isabel', 'Allende', 'Chilena', '1942-08-02'),
54 ('Jorge Luis', 'Borges', 'Argentina', '1899-08-24'),
55 ('Mario', 'Vargas Llosa', 'Peruana', '1936-03-28'),
56 ('Laura', 'Esquivel', 'Mexicana', '1950-09-30'),
57
```

Result Grid

AutorID	Nombre	Apellido	Nacionalidad	FechaNacimiento
1	Gabriel	García Márquez	Colombiana	1927-03-06
2	Isabel	Allende	Chilena	1942-08-02
3	Jorge Luis	Borges	Argentina	1899-08-24
4	Mario	Vargas Llosa	Peruana	1936-03-28
5	Laura	Esquivel	Mexicana	1950-09-30

Administration Schemas

Information

Index: PRIMARY

Definition:

Type B-TREE

Unique Yes

Visible Yes

Columns ClienteID

Object Info Session

Query Completed

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

#	Time	Action	Message	Duration / Fetch
30	01:00:56	INSERT INTO Libros (Titulo, Precio, FechaPublicacion, AutorID) VALUES (Cien años de soledad, 19.99, '1967-05-30', 1),	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
31	01:01:00	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, 2024-05-01), (2, 2, 1, 2024-05-01), (3, 3, 1, 2024-05-01), (4, 4, 1, 2024-05-01), (5, 5, 1, 2024-05-01)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
32	01:02:01	SELECT * FROM Cliente LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
33	01:02:29	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, 2024-05-01), (2, 2, 1, 2024-05-01), (3, 3, 1, 2024-05-01), (4, 4, 1, 2024-05-01), (5, 5, 1, 2024-05-01)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
34	01:02:36	CREATE DATABASE libreria	Error Code: 1007. Can't create database 'libreria'; database exists	0.000 sec
35	01:02:40	SELECT * FROM Autor LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 x

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Navigator

SCHEMAS

Filter objects

libreria

- autor
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- cliente
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- libros
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- ventas
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- Views
- Stored Procedures
- Functions
- sys

Query 1 x libreria - Schema

Limit to 1000 rows

```
57
58 INSERT INTO Libros (Titulo, Precio, FechaPublicacion, AutorID) VALUES
59 ('Cien años de soledad', 19.99, '1967-05-30', 1),
60 ('La casa de los espíritus', 15.50, '1982-11-01', 2),
61 ('Ficciones', 12.75, '1944-01-01', 3),
62 ('La ciudad y los perros', 14.99, '1963-01-01', 4),
63 ('Como agua para chocolate', 13.60, '1989-01-01', 5),
64
```

Result Grid

LibroID	Titulo	Precio	FechaPublicacion	AutorID
1	Cien años de soledad	19.99	1967-05-30	1
2	La casa de los espíritus	15.50	1982-11-01	2
3	Ficciones	12.75	1944-01-01	3
4	La ciudad y los perros	14.99	1963-01-01	4
5	Como agua para chocolate	13.60	1989-01-01	5

Administration Schemas

Information

Index: PRIMARY

Definition:

Type B-TREE

Unique Yes

Visible Yes

Columns ClienteID

Object Info Session

Query Completed

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

#	Time	Action	Message	Duration / Fetch
31	01:01:00	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, 2024-05-01), (2, 2, 1, 2024-05-01), (3, 3, 1, 2024-05-01), (4, 4, 1, 2024-05-01), (5, 5, 1, 2024-05-01)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
32	01:02:01	SELECT * FROM Cliente LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
33	01:02:29	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, 2024-05-01), (2, 2, 1, 2024-05-01), (3, 3, 1, 2024-05-01), (4, 4, 1, 2024-05-01), (5, 5, 1, 2024-05-01)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
34	01:02:36	CREATE DATABASE libreria	Error Code: 1007. Can't create database 'libreria'; database exists	0.000 sec
35	01:02:40	SELECT * FROM Autor LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
36	01:03:22	SELECT * FROM Libros LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

libreria

- Tables
  - autor
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - cliente
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - libros
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - ventas
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Views
  - Stored Procedures
  - Functions
- sys

Query 1 - libreria - Schema

Limit to 1000 rows

```
66 (1, 1, 2, '2024-05-01'),
67 (2, 2, 1, '2024-05-02'),
68 (3, 3, 3, '2024-05-03'),
69 (4, 4, 1, '2024-05-04'),
70 (5, 5, 2, '2024-05-05'),
71
72 SELECT * FROM Ventas;
```

Result Grid

VentaID	ClienteID	LibroID	Cantidad	FechaVenta
1	1	1	2	2024-05-01
2	2	2	1	2024-05-02
3	3	3	3	2024-05-03
4	4	4	1	2024-05-04
5	5	5	2	2024-05-05
6	1	1	2	2024-05-01
7	2	2	1	2024-05-02
8	3	3	3	2024-05-03
9	4	4	1	2024-05-04
10	5	5	2	2024-05-05

Ventas 5 x

Apply Revert Context Help Snippets

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

#	Time	Action	Message	Duration / Fetch
32	01:02:01	SELECT * FROM Cliente LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
33	01:02:29	INSERT INTO Ventas (ClienteID, LibroID, Cantidad, FechaVenta) VALUES (1, 1, 2, '2024-05-01'), (2, 2, 1, '2024-05-02'), (3, 3, 3, '2024-05-03'), (4, 4, 1, '2024-05-04'), (5, 5, 2, '2024-05-05')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.015 sec
34	01:02:36	CREATE DATABASE libreria	Error Code: 1007, Can't create database 'libreria'; database exists	0.000 sec
35	01:02:40	SELECT * FROM Autor LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
36	01:03:22	SELECT * FROM Libros LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
37	01:03:45	SELECT * FROM Ventas LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Index: PRIMARY

Definition:

Type	Unique	Visible	Columns
B TREE	Yes	Yes	ClienteID

Object Info Session