



## ACT 12. ÁLGEBRA RELACIONAL

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MATERIA: BASE DE DATOS

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GRUPO: EVN 201

FECHA: 07-ABR-2024

## PRIMERA PARTE

```
create database biblioteca;
```

```
use biblioteca;
```

```
create table libros(  
id int auto_increment primary key,  
titulo varchar (100),  
autor varchar (100),  
genero varchar (50));
```

```
insert into libros (titulo, autor, genero) values ('el señor de los anillos', 'j.r.r.tolkien', 'fantasia'),  
('1984', 'george orwell', 'ciencia ficcion'),  
('cien años de soledad', 'gabriel garcia marquez', 'realismo magico');
```

```
create table usuarios(  
id int auto_increment primary key,  
nombre varchar (100),  
email varchar (100),  
telefono varchar (50));
```

```
insert into usuarios (nombre, email, telefono) values ('juan perez', 'juan@example.com', '123-  
456-7890'),  
('maria garcia', 'maria@example.com', '987-654-3210');
```

```
create table prestamos(  
id int auto_increment primary key,
```

```
id_libro int,  
id_usuario int,  
fecha_prestamo date,  
fecha_devolucion date,  
foreign key (id_libro) references libros (id),  
foreign key (id_usuario) references usuarios (id));
```

```
insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1,  
'2024-03-01', '2024-03-15'),  
(2, 2, '2024-03-10', '2024-03-25'), (3, 1, '2024-03-05', '2024-03-20');
```

```
select titulo, autor from libros;
```

```
select * from usuarios where nombre like '%juan perez';
```

```
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from  
libros where id not in (select id_libro from prestamos));
```

```
select titulo from libros where id in (select id_libro from prestamos group by id_libro having  
count(*) > 1);
```

```
select titulo from libros where id not in (select id_libro from prestamos);
```

```
select usuarios.nombre, libros.titulo from usuarios join libros on 1=1;
```

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INSTANCE

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Administration Schemas

Information

No object selected

Query 1

```
(2, 2, '2024-03-10', '2024-03-25'), (3, 1, '2024-03-05', '2024-03-20');
select titulo, autor from libros;
select*from usuarios where nombre like '%juan perez';
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
```

Result Grid

titulo	autor
el señor de los anillos	j.r.r.tolkien
1984	george orwell
cien años de soledad	gabriel garcia marquez
el señor de los anillos	j.r.r.tolkien
1984	george orwell
cien años de soledad	gabriel garcia marquez
el señor de los anillos	j.r.r.tolkien
1984	george orwell
cien años de soledad	gabriel garcia marquez

libros 9

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	18:20:56	insert into usuarios (nombre, email, telefono) values ('Juan perez', 'juan@example.com', '123-456-7890');	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.032 sec
11	18:21:06	create table prestamos(id int auto_increment primary key, id_libro int, id_usuario int, fecha_pr...	0 row(s) affected	0.079 sec
12	18:21:12	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.015 sec
13	18:21:35	select titulo, autor from libros LIMIT 0, 1000	9 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

30°C Soleado

Búsqueda

06:21 p. m. 07/04/2024

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Administration Schemas

Information

No object selected

Query 1

```
(2, 2, '2024-03-10', '2024-03-25'), (3, 1, '2024-03-05', '2024-03-20');
select titulo, autor from libros;
select*from usuarios where nombre like '%juan perez';
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
```

Result Grid

id	nombre	email	telefono
1	Juan perez	juan@example.com	123-456-7890

usuarios 10

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	18:21:06	create table prestamos(id int auto_increment primary key, id_libro int, id_usuario int, fecha_pr...	0 row(s) affected	0.079 sec
12	18:21:12	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.015 sec
13	18:21:35	select titulo, autor from libros LIMIT 0, 1000	9 row(s) returned	0.016 sec / 0.000 sec
14	18:21:56	select*from usuarios where nombre like "%juan perez" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Soleado

Búsqueda

06:21 p. m. 07/04/2024

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MySQL Workbench

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Administration Schemas

Information

No object selected

Query 1

Limit to 1000 rows

```
(2, 2, '2024-03-10', '2024-03-25'), (3, 1, '2024-03-05', '2024-03-20'));  
select titulo, autor from libros;  
select*from usuarios where nombre like '%juan perez';  
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not  
select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
```

Result Grid

titulo
el señor de los anillos
1984
cien años de soledad

Result 11

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
12	18:21:12	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, 2...	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.015 sec
13	18:21:35	select titulo, autor from libros LIMIT 0, 1000	9 row(s) returned	0.016 sec / 0.000 sec
14	18:21:56	select*from usuarios where nombre like '%juan perez' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
15	18:22:15	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Soleado

Búsqueda

06:22 p. m. 07/04/2024

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Administration Schemas

Information

No object selected

Query 1

Limit to 1000 rows

```
(2, 2, '2024-03-10', '2024-03-25'), (3, 1, '2024-03-05', '2024-03-20'));  
select titulo, autor from libros;  
select*from usuarios where nombre like '%juan perez';  
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not  
select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
```

Result Grid

titulo
--------

libros 12

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
13	18:21:35	select titulo, autor from libros LIMIT 0, 1000	9 row(s) returned	0.016 sec / 0.000 sec
14	18:21:56	select*from usuarios where nombre like '%juan perez' LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
15	18:22:15	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	3 row(s) returned	0.000 sec / 0.000 sec
16	18:22:43	select titulo from libros where id in(select id_libro from prestamos group by id_libro having cou...	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Soleado

Búsqueda

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Administration Schemas

Information

No object selected

Query 1

```
28 • select titulo, autor from libros;
29 • select*from usuarios where nombre like '%juan perez';
30 • (select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
31 • select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
32 • select titulo from libros where id not in(select id_libro from prestamos);
```

Result Grid

	titulo
▶	el señor de los anillos
	1984
	cien años de soledad
	el señor de los anillos
	1984
	cien años de soledad

libros 13

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 14	18:21:56	select*from usuarios where nombre like "%juan perez" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
✓ 15	18:22:15	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 16	18:22:43	select titulo from libros where id in(select id_libro from prestamos group by id_libro having cou...	0 row(s) returned	0.000 sec / 0.000 sec
✓ 17	18:23:04	select titulo from libros where id not in(select id_libro from prestamos) LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

30°C Soleado

Búsqueda

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Administration Schemas

Information

No object selected

Query 1

```
29 • select*from usuarios where nombre like '%juan perez';
30 • (select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
31 • select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*)>1);
32 • select titulo from libros where id not in(select id_libro from prestamos);
33 • select usuarios.nombre, libros.titulo from usuarios join libros on 1=1;
```

Result Grid

	nombre	titulo
▶	maria garcia	el señor de los anillos
	juan perez	el señor de los anillos
	maria garcia	1984
	juan perez	1984
	maria garcia	cien años de soledad
	juan perez	cien años de soledad
	maria garcia	el señor de los anillos
	juan perez	el señor de los anillos
	maria garcia	1984
	juan perez	1984
	maria garcia	cien años de soledad
	juan perez	cien años de soledad

Result 14

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 15	18:22:15	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	3 row(s) returned	0.000 sec / 0.000 sec
✓ 16	18:22:43	select titulo from libros where id in(select id_libro from prestamos group by id_libro having cou...	0 row(s) returned	0.000 sec / 0.000 sec
✓ 17	18:23:04	select titulo from libros where id not in(select id_libro from prestamos) LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
✓ 18	18:23:22	select usuarios.nombre, libros.titulo from usuarios join libros on 1=1 LIMIT 0, 1000	18 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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Búsqueda

06:23 p. m. 07/04/2024

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## SEGUNDA PARTE

```
create database biblioteca;
```

```
use biblioteca;
```

```
create table libros(  
id int auto_increment primary key,  
titulo varchar (100),  
autor varchar (100),  
genero varchar (50));
```

```
insert into libros (titulo, autor, genero) values ('el señor de los anillos', 'j.r.r.tolkien', 'fantasia'),  
( '1984', 'george orwell', 'ciencia ficcion'),  
( 'cien años de soledad', 'gabriel garcia marquez', 'realismo magico'),  
( 'el principito', 'Antoine de Saint-Exupery', 'ficción infantil'),  
( 'orgullo y prejuicio', 'Jane Austen', 'romance'),  
( 'la razon de estar contigo', 'W.Bruce Cameron', 'ficción domestica');
```

```
create table usuarios(  
id int auto_increment primary key,  
nombre varchar (100),  
email varchar (100),  
telefono varchar (50));
```

```
insert into usuarios (nombre, email, telefono) values ('juan perez', 'juan@example.com', '123-456-  
7890'),  
( 'maria garcia', 'maria@example.com', '987-654-3210'),  
( 'Selene Camacho', 'selene@example.com', '889-524-6522'),  
( 'Danna Caudillo', 'danna@example.com', '578-995-5412'),  
( 'Jorge Tejeda', 'jorge@example.com', '632-784-6932');
```

```
create table prestamos(  
id int auto_increment primary key,  
id_libro int,  
id_usuario int,  
fecha_prestamo date,  
fecha_devolucion date,  
foreign key (id_libro) references libros (id),  
foreign key (id_usuario) references usuarios (id));
```

```
insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2024-03-01', '2024-03-15'),  
(2, 2, '2024-03-10', '2024-03-25'),  
(3, 1, '2024-03-05', '2024-03-20'),  
(4, 4, '2024-03-07', '2024-03-26'),  
(5, 5, '2024-04-02', '2024-04-19'),  
(6, 6, '2024-05-09', '2024-05-15');
```

```
select titulo, autor from libros;  
select * from usuarios where email like '%example.com';
```

```
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros  
where id not in (select id_libro from prestamos));
```

```
select titulo from libros where id in (select id_libro from prestamos group by id_libro having count(*) >  
1);
```

```
select titulo from libros where id not in (select id_libro from prestamos);
```

```
select usuarios.nombre, libros.titulo from usuarios join libros on 1=1;
```



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Administration Schemas

Information

No object selected

Query 1

```
(3, 1, '2024-03-05', '2024-03-20'),
(4, 4, '2024-03-07', '2024-03-26'),
(5, 5, '2024-04-02', '2024-04-19'),
(6, 6, '2024-05-09', '2024-05-15');
select titulo, autor from libros;
```

Result Grid

titulo	autor
el señor de los anillos	j.r.r.tolkien
1984	george orwell
cient años de soledad	gabriel garcia marquez
el principito	Antoine de Saint-Exu...
orgullo y prejuicio	Jane Austen
la razon de estar co...	W.Bruce Cameron
el señor de los anillos	j.r.r.tolkien
1984	george orwell
cient años de soledad	gabriel garcia marquez
el principito	Antoine de Saint-Exu...
orgullo y prejuicio	Jane Austen
la razon de estar co...	W.Bruce Cameron

libros 22 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
37	18:45:37	create table prestamos(id int auto_increment primary key, id_libro int, id_usuario int, fecha_pr...	Error Code: 1050. Table 'prestamos' already exists	0.000 sec
38	18:45:40	create table prestamos(id int auto_increment primary key, id_libro int, id_usuario int, fecha_pr...	Error Code: 1050. Table 'prestamos' already exists	0.000 sec
39	18:45:44	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.016 sec
40	18:46:07	select titulo, autor from libros LIMIT 0, 1000	21 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soledad

Búsqueda

ESP LAA

06:46 p. m. 07/04/2024

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Administration Schemas

Information

No object selected

Query 1

```
(4, 4, '2024-03-07', '2024-03-26'),
(5, 5, '2024-04-02', '2024-04-19'),
(6, 6, '2024-05-09', '2024-05-15');
select titulo, autor from libros;
select*from usuarios where email like '%example.com';
```

Result Grid

id	nombre	email	telefono
6	Danna Caudillo	danna@example.com	578-995-5412
7	Jorge Tejeda	jorge@example.com	632-784-6932
8	juan perez	juan@example.com	123-456-7890
9	maria garcia	maria@example.com	987-654-3210
10	Selene Camacho	selene@example.com	889-524-6522
11	Danna Caudillo	danna@example.com	578-995-5412
12	Jorge Tejeda	jorge@example.com	632-784-6932
13	juan perez	juan@example.com	123-456-7890
14	maria garcia	maria@example.com	987-654-3210
15	Selene Camacho	selene@example.com	889-524-6522
16	Danna Caudillo	danna@example.com	578-995-5412
17	Jorge Tejeda	jorge@example.com	632-784-6932

usuarios 23 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
38	18:45:40	create table prestamos(id int auto_increment primary key, id_libro int, id_usuario int, fecha_pr...	Error Code: 1050. Table 'prestamos' already exists	0.000 sec
39	18:45:44	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.016 sec
40	18:46:07	select titulo, autor from libros LIMIT 0, 1000	21 row(s) returned	0.000 sec / 0.000 sec
41	18:46:50	select*from usuarios where email like '%example.com' LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soledad

Búsqueda

ESP LAA

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Administration Schemas

Information

No object selected

Query 1

```
(5, 5, '2024-04-02', '2024-04-19'),
(6, 6, '2024-05-09', '2024-05-15');
select titulo, autor from libros;
select*from usuarios where email like '%example.com';
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
```

Result Grid

titulo
el señor de los anillos
1984
cien años de soledad
el principito
orgullo y prejuicio
la razon de estar contigo

Result 24

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
39	18:45:44	insert into prestamos (id_libro, id_usuario, fecha_prestamo, fecha_devolucion) values (1, 1, '2...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.016 sec
40	18:46:07	select titulo, autor from libros LIMIT 0, 1000	21 row(s) returned	0.000 sec / 0.000 sec
41	18:46:50	select*from usuarios where email like '%example.com' LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
42	18:47:12	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soleado

Búsqueda

ESP LAA

06:47 p.m. 07/04/2024

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Administration Schemas

Information

No object selected

Query 1

```
(6, 6, '2024-05-09', '2024-05-15');
select titulo, autor from libros;
select*from usuarios where email like '%example.com';
(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);
```

Result Grid

titulo
el señor de los anillos
1984
cien años de soledad
el señor de los anillos
1984
cien años de soledad

libros 26

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	18:46:50	select*from usuarios where email like '%example.com' LIMIT 0, 1000	17 row(s) returned	0.000 sec / 0.000 sec
42	18:47:12	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libr...	6 row(s) returned	0.000 sec / 0.000 sec
43	18:47:42	select titulo from libros where id in(select id_libro from prestamos group by id_libro having cou...	6 row(s) returned	0.000 sec / 0.000 sec
44	18:47:58	select titulo from libros where id in(select id_libro from prestamos group by id_libro having cou...	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soleado

Búsqueda

ESP LAA

06:48 p.m. 07/04/2024

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

MySQL Workbench

Local instance MySQL83 - W...

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

Administration Schemas

Information

No object selected

Query 1

```
38 • select titulo, autor from libros;
39 • select*from usuarios where email like '%example.com';
40 • (select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
41 • select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);
42 • select titulo from libros where id not in(select id_libro from prestamos);
```

Result Grid

titulo
el señor de los anillos
1984
cien años de soledad
el principito
orgullo y prejuicio
la razon de estar contigo
el señor de los anillos
1984
cien años de soledad
el principito
orgullo y prejuicio
la razon de estar contigo

libros 27 x

Output

#	Time	Action	Message	Duration / Fetch
✓ 42	18:47:12	(select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not in (select id_libro from prestamos group by id_libro having count(*) > 1);	6 row(s) returned	0.000 sec / 0.000 sec
✓ 43	18:47:42	select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);	6 row(s) returned	0.000 sec / 0.000 sec
✓ 44	18:47:58	select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);	6 row(s) returned	0.000 sec / 0.000 sec
✓ 45	18:48:13	select titulo from libros where id not in(select id_libro from prestamos) LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soleado

Búsqueda

06:48 p. m. 07/04/2024

MySQL Workbench

Local instance MySQL83 - W...

File Edit View Query Database Server Tools Scripting Help

Navigator

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Administration Schemas

Information

No object selected

Query 1

```
39 • select*from usuarios where email like '%example.com';
40 • (select titulo from libros where id in (select id_libro from prestamos)) union (select titulo from libros where id not
41 • select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);
42 • select titulo from libros where id not in(select id_libro from prestamos);
43 • select usuarios.nombre, libros.titulo from usuarios join libros on 1=1;
```

Result Grid

nombre	titulo
Jorge Tejeda	el señor de los anillos
Danna Caudillo	el señor de los anillos
Selene Camacho	el señor de los anillos
maria garcia	el señor de los anillos
juan perez	el señor de los anillos
Jorge Tejeda	el señor de los anillos
Danna Caudillo	el señor de los anillos
Selene Camacho	el señor de los anillos
maria garcia	el señor de los anillos
juan perez	el señor de los anillos
Jorge Tejeda	el señor de los anillos
Danna Caudillo	el señor de los anillos

Result 28 x

Output

#	Time	Action	Message	Duration / Fetch
✓ 43	18:47:42	select titulo from libros where id in(select id_libro from prestamos group by id_libro having count(*) > 1);	6 row(s) returned	0.000 sec / 0.000 sec
✓ 45	18:48:13	select titulo from libros where id not in(select id_libro from prestamos) LIMIT 0, 1000	15 row(s) returned	0.000 sec / 0.000 sec
✓ 46	18:48:28	select usuarios.nombre, libros.titulo from usuarios join libros on 1=1 LIMIT 0, 1000	357 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

29°C Soleado

Búsqueda

06:48 p. m. 07/04/2024