

Rezolvarea proiectului 2

Litra Cristian

Mai jos sunt inserate capturi de ecran ce arata structura tabelelor SQL:

phpMyAdmin

Recent Favorites

New

cinemadb

New

filme

Columns

Indexes

rezervari

Columns

New

Data (date)

Film (MUL, int)

Id (PRI, int)

Locuri (int)

Nume (text)

Sala (MUL, int)

Indexes

Triggers

sali

Columns

Indexes

information_schema

mysql

performance_schema

phpmyadmin

test

Server: localhost:3307 » Database: cinemadb » Table: filme

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	IdFilm	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	Titlu	varchar(30)	utf8mb4_general_ci	No	None			Change Drop More

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#)

[Print](#) [Propose table structure](#) [Move columns](#) [Normalize](#)

Add column(s) [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	IdFilm	5	A	No	

Create an index on columns [Go](#)

Partitions

No partitioning defined!

Partition table

Information

Space usage			Row statistics	
Data	32.0	KIB	Format	dynamic
Index	0	B	Collation	utf8mb4_general_ci
Overhead	0	B	Next autoindex	8
Effective	32.0	KIB	Creation	Jul 19, 2024 at 05:32 AM
Total	32.0	KIB	Last update	Jul 24, 2024 at 01:34 AM
Optimize table			Last check	Jul 24, 2024 at 01:34 AM

Structura tabelului “filme”

Server: localhost:3307 » Database: cinemadb » Table: filme

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#)

Showing rows 0 - 4 (5 total, Query took 0.0002 seconds.)

```
SELECT * FROM `filme`
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 Filter rows: Search this table

Extra options

				IdFilm	Titlu
<input type="checkbox"/>				1	Pulp Fiction
<input type="checkbox"/>				2	Underground
<input type="checkbox"/>				3	Kill Bill
<input type="checkbox"/>				4	Interstellar
<input type="checkbox"/>				5	The Matrix

Inregistrarile din tabelul "filme"

Server: localhost:3307 » Database: cinemadb » Table: rezervari

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operations](#) [Triggers](#)

[Table structure](#) [Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	Id	int(11)			No	None		AUTO_INCREMENT	More
<input type="checkbox"/> 2	Film	int(11)			No	None			More
<input type="checkbox"/> 3	Sala	int(11)			No	None			More
<input type="checkbox"/> 4	Nume	text	utf8mb4_general_ci		No	None			More
<input type="checkbox"/> 5	Data	date			No	None			More
<input type="checkbox"/> 6	Locuri	int(11)			No	None			More

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Spatial](#) [Fulltext](#)

Structura din tabelul "rezervari"

Server: localhost:3307 » Database: cinemadb » Table: sali

[Browse](#)
[Structure](#)
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[Import](#)
[Privileges](#)
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[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	IdSala	int(11)		No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2	Capacitate	int(11)		No	20			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)

Structura din tabelul "sali"

Server: localhost:3307 » Database: cinemadb » Ta

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)

✓ Showing rows 0 - 8 (9 total, Query took 0.0002 seconds.)

SELECT * FROM `sali`

☐ Profiling
 [\[Edit inline \]](#)
[\[Edit \]](#)
[\[Explain SQL \]](#)
[\[Create PHP code \]](#)

☐ Show all | Number of rows: 25 Filter rows: Search thi

Extra options

				IdSala	Capacitate
<input type="checkbox"/>	Edit	Copy	Delete	1	20
<input type="checkbox"/>	Edit	Copy	Delete	2	20
<input type="checkbox"/>	Edit	Copy	Delete	3	20
<input type="checkbox"/>	Edit	Copy	Delete	4	20
<input type="checkbox"/>	Edit	Copy	Delete	5	20
<input type="checkbox"/>	Edit	Copy	Delete	6	20
<input type="checkbox"/>	Edit	Copy	Delete	7	20
<input type="checkbox"/>	Edit	Copy	Delete	8	20
<input type="checkbox"/>	Edit	Copy	Delete	9	20

Inregistrarile din tabelul "sali"

Mai jos sunt inserate capturi de ecran ce demonstreaza functionalitatea programului realizat:

```
Deschidere cinematograf...
Username: personalCinematograf
Parola: Cinem@123
Autentificat!
Actiune: Rezervare
Film (Pulp Fiction, Underground, Kill Bill, Interstellar, The Matrix): Pulp Fiction
Sala: 3
Nume: Ionescu
Locuri: 5
Data (yyyy-mm-dd): 2024-07-25
Rezervare adaugata cu succes!
```

O rezervare care respecta formatul

```
Actiune: Rezervare
Film (Pulp Fiction, Underground, Kill Bill, Interstellar, The Matrix): Pulp Fiction
Sala: 3
Nume: Georgescu
Locuri: 16
Data (yyyy-mm-dd): 2024-07-25
Sala plina!
```

O rezervare care depaseste cele 20 de locuri disponibile, tratata cu script-ul SQL urmatoar:

```
CREATE TRIGGER check_capacity_before_insert
BEFORE INSERT ON rezervari
FOR EACH ROW
BEGIN
    DECLARE current_reserved INT;
    DECLARE total_capacity INT DEFAULT 20;

    SELECT COALESCE(SUM(locuri), 0) INTO current_reserved
    FROM rezervari
    WHERE sala = NEW.sala AND data = NEW.data;

    IF (current_reserved + NEW.locuri > total_capacity) THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Sala plina!';
    END IF;
END //

DELIMITER ;
```

```
Actiune: Rezervare
Film (Pulp Fiction, Underground, Kill Bill, Interstellar, The Matrix): Pulp Fiction
Sala: 3
Nume: Stefan
Locuri: 3
Data (yyyy-mm-dd): 2023-03-02
Actiune: java.sql.SQLException: Nu poti rezerva in trecut!
```

O rezervare care doreste sa se faca in trecut, tratata cu script-ul SQL urmatoar:

```
DELIMITER $$
```

```
CREATE TRIGGER check_event_date
BEFORE INSERT ON rezervari
FOR EACH ROW
BEGIN
    IF NEW.data < CURDATE() THEN
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Nu poti rezerva in trecut!';
    END IF;
END$$
```

```
DELIMITER ;
```

```
Deschidere cinematograf...
Username: personalCinematograf
Parola: Cinemm123
Username sau parola gresita!
Username: |
```

Gresirea parolei/username-ului

```
Actiune: Afisare rezervari
Nume: Ionescu
ID: 12, Film: 1, Sala: 3, Locuri: 5, Data: 2024-07-25
Actiune:
```

Afisarea rezervarii

```
Actiune: Verificare capacitate
Sala: 3
Locuri libere: 12
Actiune:
```













Verificarea capacitatii unei Sali

```
Actiune: Sterge rezervare
ID Rezervare: 12
Rezervare stearsa cu succes!
Actiune:
```

Stergerea unei rezervari din baza de date

```
Actiune: Rezervari
Comanda invalida!
Actiune:
```

Introducerea unei comenzi invalide de la tastatura

<div><div>←T→</div><div></div></div>				Id	Film	Sala	Nume	Data	Locuri
<input type="checkbox"/>	 Edit	 Copy	 Delete	13	5	5	Groza	2024-07-25	6
<input type="checkbox"/>	 Edit	 Copy	 Delete	14	2	2	Valeriu	2024-07-28	2
<input type="checkbox"/>	 Edit	 Copy	 Delete	15	3	1	Andronache	2024-07-26	10
<input type="checkbox"/>	 Edit	 Copy	 Delete	16	4	3	Cornaeliu	2024-07-25	3
<input type="checkbox"/>	 Edit	 Copy	 Delete	17	2	2	Alecu	2024-07-28	4
<input type="checkbox"/>	 Edit	 Copy	 Delete	18	5	4	Marin	2024-07-26	1

Inregistrarile din baza de date

```
Rezervare adaugata cu succes!  
Actiune: Salvare  
Nume fisier: salvare_finala  
Rezervarile au fost salvate in fisierul salvare_finala  
Actiune:
```

Salvarea inregistrarilor intr-un fisier

```
Salvare: 24/07/2024 02:32  
Nume: Groza  
Data rezervare: 2024-07-25  
Film: 5  
  
Nume: Valeriu  
Data rezervare: 2024-07-28  
Film: 2  
  
Nume: Andronache  
Data rezervare: 2024-07-26  
Film: 3  
  
Nume: Cornaeliu  
Data rezervare: 2024-07-25  
Film: 4  
  
Nume: Alecu  
Data rezervare: 2024-07-28  
Film: 2  
  
Nume: Marin  
Data rezervare: 2024-07-26  
Film: 5
```