



GESTION D'UN THEATRE

Spécifications techniques



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I. Maquettes

Connexion

Login :

Mot de passe :

CONNEXION

Menu

Pièces de théâtre

Représentations

Réservations

Synthèse



Gestion des pièces

Ajouter

Supprimer

Nom Pièce	Auteur	Thème	Public	Durée	Prix fixe
Les précieuses ridicules	Molière	Comédie	Famille	2h	20 €

Modifier la piece

Nom :

Thème :

Durée :

Type public :

Auteur :
Nationalité(s) auteur

Compagnie :

Prix fixe :

Description :

Valider

Annuler

RETOUR AU MENU



Gestion des représentations

Ajouter

Supprimer

Filtres

Pièce :

Du au

Filtrer

Nom Pièce	Date	Heure	Places	Durée	Tarif
Les précieuses ridicules	05/02/2019	15h00	110	2h	25€

Modifier la représentation

Pièce

Date :

Places :

Heure :

Tarif :

Valider

Annuler

RETOUR AU MENU



Gestion des réservations

Ajouter

Supprimer

Pièce	Représentation	Durée	Thème	Public	Nom	Places	Total
Les précieuses ridicules	05/02/2019 à 15h00	2h	Comédie	Famille	DUPONT	3	60 €

Modifier la réservation

Pièce :

Représentation : 

Thème : Comédie

Durée : 2h

Compagnie : Act for fun

Type public : Famille

Prix fixe : 20 €

Nom :

Adresse email :

Prénom :

N° de téléphone :

Nombre de places :

Total à payer : 60 €

Valider


Annuler

RETOUR AU MENU



Synthèse

Filtres

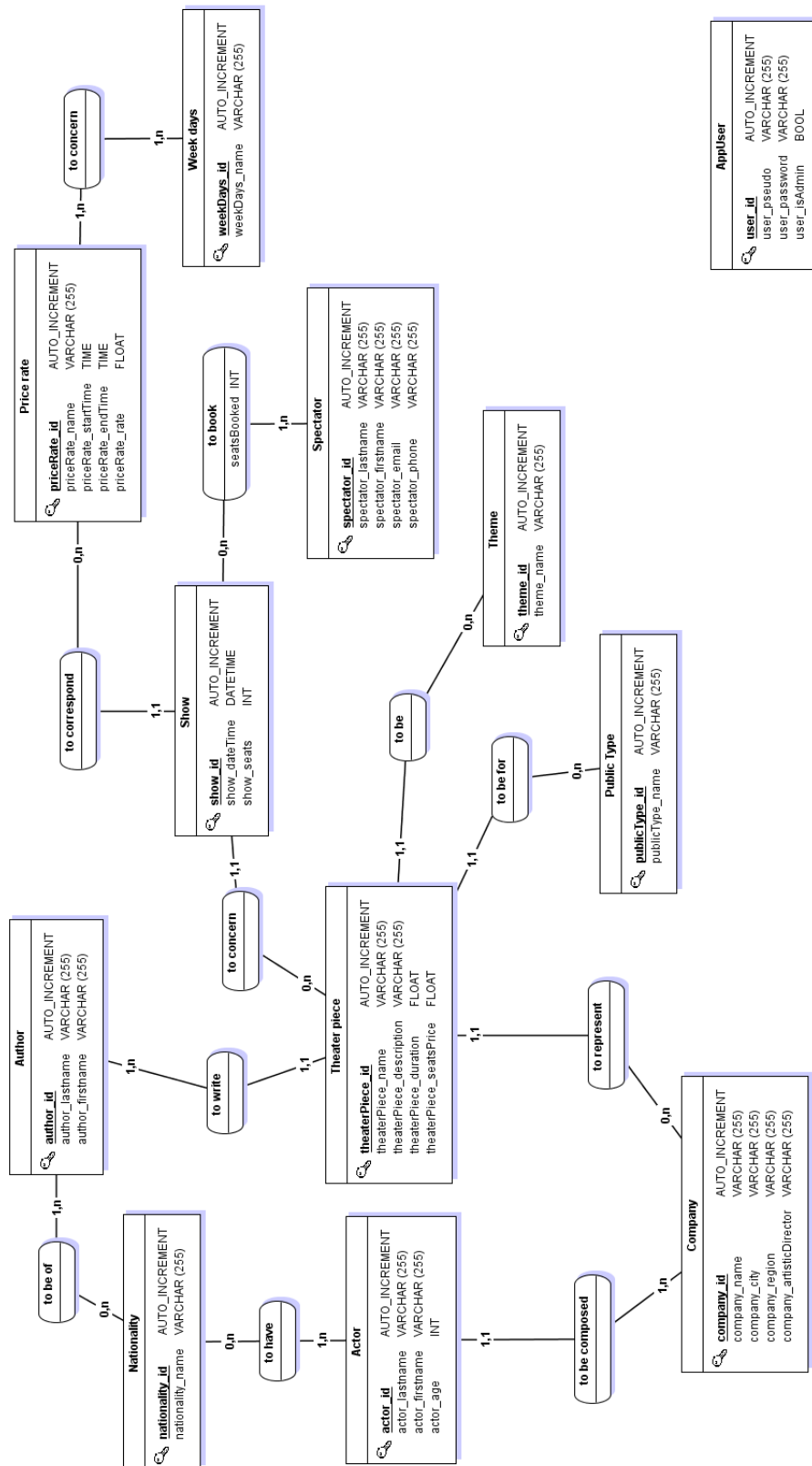
Du  au 

Pièce	Nombre représentations	Nombre total de spectateurs	Nombre moyen de spectateurs	CA réalisé	CA moyen réalisé
Les précieuses ridicules	12	2470	205	53 000 €	4 416 €

[RETOUR AU MENU](#)



II. Modélisation



III. Schéma relationnel

AppUser (user_id, user_pseudo, user_password, user_isAdmin)

Primary Key : user_id

Author (author_id, author_lastname, author_firstname)

Primary Key : author_id

Nationality (nationality_id, nationality_name)

Primary Key : nationality_id

Actor (actor_id, actor_lastname, actor_firstname, actor_age, actor_company)

Primary key : actor_id

Foreign Key : actor_company references Company (company_id)

Company (company_id, company_name, company_city, company_region, company_artisticDirector)

Primary Key : company_id

Theme (theme_id, theme_name)

Primary_key : theme_id

Public type (publicType_id, publicType_name)

Primary_key : publicType_id

Theater piece (theaterPiece_id, theaterPiece_name, theaterPiece_description, theaterPiece_duration, theaterPiece_seatsPrice, theaterPiece_company, theaterPiece_theme, theaterPiece_publicType, theaterPiece_author)

Primary Key : theaterPiece_id

Foreign Key : theaterPiece_company references Company (company_id)

Foreign Key : theaterPiece_theme references Theme (theme_id)

Foreign Key : theaterPiece_publicType references Public Type (publicType_id)

Foreign Key : theaterPiece_author references Author (author_id)

Show (show_id, show_dateTime, show_seats, show_priceRate, show_theaterPiece)

Primary Key : show_id

Foreign Key : show_priceRate references Price rate (priceRate_id)

Foreign Key : show_theaterPiece references Theater piece (theaterPiece_id)

Price rate (priceRate_id, priceRate_name, priceRate_startTime, priceRate_endTime, priceRate_rate)

Primary Key : priceRate_id

Week days (weekDays_id, weekDays_name)

Primary Key : weekDays_id

Spectator (spectator_id, spectator_lastname, spectator_firstname, spectator_email, spectator_phone)

Primary Key : spectator_id



To be of (toBeOf_author, toBeOf_nationality)

Primary Key : toBeOf_author, toBeOf_nationality

Foreign Key : toBeOf_author references Author (author_id)

Foreign Key : toBeOf_nationality references Nationality (nationality_id)

To have (toHave_actor, toHave_nationality)

Primary Key : toHave_actor, toHave_nationality

Foreign Key : toHave_actor references Actor (actor_id)

Foreign Key : toHave_nationality references Nationality (nationality_id)

To book (toBook_show, toBook_spectator, seatsBooked)

Primary Key : toBook_show, toBook_spectator

Foreign Key : toBook_show references Show (show_number)

Foreign Key : toBook_spectator references Spectator (spectator_id)

To concern (toConcern_priceRate , toConcern_weekDays)

Primary Key : toConcern_priceRate , toConcern_weekDays

Foreign Key : toConcern_priceRate references Price rate (priceRate_id)

Foreign Key : toConcern_weekDays references Week days (weekDays_id)

IV. Script SQL : création

```
/*-----  
*           Script SQLSERVER  
-----*/  
  
/*-----  
-- Table: User  
-----*/  
CREATE TABLE AppUser(  
    user_id          INT IDENTITY (1,1) NOT NULL ,  
    user_pseudo      VARCHAR (255) NOT NULL ,  
    user_password    VARCHAR (255) NOT NULL ,  
    user_isAdmin     bit NOT NULL ,  
    CONSTRAINT User_PK PRIMARY KEY (user_id)  
);  
  
/*-----  
-- Table: Company  
-----*/  
CREATE TABLE Company(  
    company_id       INT IDENTITY (1,1) NOT NULL ,  
    company_name     VARCHAR (255) NOT NULL ,  
    company_city     VARCHAR (255) NOT NULL ,  
    company_region   VARCHAR (255) NOT NULL ,  
    company_artisticDirector VARCHAR (255) NOT NULL ,  
    CONSTRAINT Company_PK PRIMARY KEY (company_id)  
);
```



```
/*-----  
-- Table: Actor  
-----*/  
CREATE TABLE Actor(  
    actor_id          INT IDENTITY (1,1) NOT NULL ,  
    actor_lastname    VARCHAR (255) NOT NULL ,  
    actor_firstname   VARCHAR (255) NOT NULL ,  
    actor_age         INT NOT NULL ,  
    actor_company     INT NOT NULL ,  
    CONSTRAINT Actor_PK PRIMARY KEY (actor_id)  
  
    ,CONSTRAINT Actor_Company_FK FOREIGN KEY (actor_company)  
REFERENCES Company(company_id)  
);  
  
/*-----  
-- Table: Spectator  
-----*/  
CREATE TABLE Spectator(  
    spectator_id      INT IDENTITY (1,1) NOT NULL ,  
    spectator_lastname VARCHAR (255) NOT NULL ,  
    spectator_firstname VARCHAR (255) NOT NULL ,  
    spectator_email   VARCHAR (255) NOT NULL ,  
    spectator_phone   VARCHAR (255) NOT NULL ,  
    CONSTRAINT Spectator_PK PRIMARY KEY (spectator_id)  
);  
  
/*-----  
-- Table: Price rate  
-----*/  
CREATE TABLE Price_rate(  
    priceRate_id      INT IDENTITY (1,1) NOT NULL ,  
    priceRate_name     VARCHAR (255) NOT NULL ,  
    priceRate_startTime TIME (2) NOT NULL ,  
    priceRate_endTime  TIME (2) NOT NULL ,  
    priceRate_rate     FLOAT NOT NULL ,  
    CONSTRAINT Price_rate_PK PRIMARY KEY (priceRate_id)  
);  
  
/*-----  
-- Table: Week days  
-----*/  
CREATE TABLE Week_days(  
    weekDays_id       INT IDENTITY (1,1) NOT NULL ,  
    weekDays_name     VARCHAR (255) NOT NULL ,  
    CONSTRAINT Week_days_PK PRIMARY KEY (weekDays_id)  
);
```



```
/*-----  
-- Table: Author  
-----*/  
CREATE TABLE Author(  
    author_id          INT IDENTITY (1,1) NOT NULL ,  
    author_lastname    VARCHAR (255) NOT NULL ,  
    author_firstname   VARCHAR (255) NOT NULL ,  
    CONSTRAINT Author_PK PRIMARY KEY (author_id)  
);  
  
/*-----  
-- Table: Theme  
-----*/  
CREATE TABLE Theme(  
    theme_id          INT IDENTITY (1,1) NOT NULL ,  
    theme_name        VARCHAR (255) NOT NULL ,  
    CONSTRAINT Theme_PK PRIMARY KEY (theme_id)  
);  
  
/*-----  
-- Table: Public Type  
-----*/  
CREATE TABLE Public_Type(  
    publicType_id     INT IDENTITY (1,1) NOT NULL ,  
    publicType_name    VARCHAR (255) NOT NULL ,  
    CONSTRAINT Public_Type_PK PRIMARY KEY (publicType_id)  
);  
  
/*-----  
-- Table: Theater piece  
-----*/  
CREATE TABLE Theater_piece(  
    theaterPiece_id   INT IDENTITY (1,1) NOT NULL ,  
    theaterPiece_name VARCHAR (255) NOT NULL ,  
    theaterPiece_description VARCHAR (255) NOT NULL ,  
    theaterPiece_duration    FLOAT NOT NULL ,  
    theaterPiece_seatsPrice   FLOAT NOT NULL ,  
    theaterPiece_company      INT NOT NULL ,  
    theaterPiece_author        INT NOT NULL ,  
    theaterPiece_publicType    INT NOT NULL ,  
    theaterPiece_theme         INT NOT NULL ,  
    CONSTRAINT Theater_piece_PK PRIMARY KEY (theaterPiece_id)  
  
    ,CONSTRAINT Theater_piece_Company_FK FOREIGN KEY  
(theaterPiece_company) REFERENCES Company(company_id)  
    ,CONSTRAINT Theater_piece_Author_FK FOREIGN KEY  
(theaterPiece_author) REFERENCES Author(author_id)  
    ,CONSTRAINT Theater_piece_Public_Type_FK FOREIGN KEY  
(theaterPiece_publicType) REFERENCES Public_Type(publicType_id)  
    ,CONSTRAINT Theater_piece_Theme_FK FOREIGN KEY  
(theaterPiece_theme) REFERENCES Theme(theme_id)  
);
```



```
/*-----  
-- Table: Show  
-----*/  
CREATE TABLE Show(  
    show_id INT NOT NULL ,  
    show_dateTime DATETIME NOT NULL ,  
    show_seats INT NOT NULL ,  
    show_priceRate INT NOT NULL ,  
    show_theaterPiece INT NOT NULL ,  
    CONSTRAINT Show_PK PRIMARY KEY (show_id)  
  
    ,CONSTRAINT Show_Price_rate_FK FOREIGN KEY (show_priceRate)  
REFERENCES Price_rate(priceRate_id)  
    ,CONSTRAINT show_theaterPiece_FK FOREIGN KEY(show_theaterPiece)  
REFERENCES Theater_piece(theaterPiece_id)  
);  
  
/*-----  
-- Table: Nationality  
-----*/  
CREATE TABLE Nationality(  
    nationality_id INT IDENTITY (1,1) NOT NULL ,  
    nationality_name VARCHAR (255) NOT NULL ,  
    CONSTRAINT Nationality_PK PRIMARY KEY (nationality_id)  
);  
  
/*-----  
-- Table: to have  
-----*/  
CREATE TABLE To_have(  
    toHave_nationality INT NOT NULL ,  
    toHave_actor INT NOT NULL ,  
    CONSTRAINT To_have_PK PRIMARY KEY  
(toHave_nationality,toHave_āctor)  
  
    ,CONSTRAINT toHave_nationality_FK FOREIGN KEY  
(toHave_nationality) REFERENCES Nationality(nationality_id)  
    ,CONSTRAINT toHave_actor_FK FOREIGN KEY (toHave_āctor)  
REFERENCES Actor(actor_id)  
);  
  
/*-----  
-- Table: to be of  
-----*/  
CREATE TABLE To_be_of(  
    toBeOf_nationality INT NOT NULL ,  
    toBeOf_author INT NOT NULL ,  
    CONSTRAINT To_be_of_PK PRIMARY KEY  
(toBeOf_nationality,toBeOf_āuthor)  
  
    ,CONSTRAINT toBeOf_nationality_FK FOREIGN KEY  
(toBeOf_nationality) REFERENCES Nationality(nationality_id)  
    ,CONSTRAINT toBeOf_āuthor_FK FOREIGN KEY (toBeOf_āuthor)  
REFERENCES Author(author_id)  
);
```



```
/*-----  
-- Table: to book  
-----*/  
CREATE TABLE To_book(  
    toBook_spectator INT NOT NULL ,  
    toBook_show INT NOT NULL ,  
    seatsBooked INT NOT NULL,  
    CONSTRAINT toBook_PK PRIMARY KEY (toBook_show,toBook_spectator)  
  
    ,CONSTRAINT toBook_show_FK FOREIGN KEY (toBook_show) REFERENCES  
Show(show_id)  
    ,CONSTRAINT toBook_spectator_FK FOREIGN KEY (toBook_spectator)  
REFERENCES Spectator(spectator_id)  
);  
  
/*-----  
-- Table: to concern  
-----*/  
CREATE TABLE To_concern(  
    toConcern_weekDays INT NOT NULL ,  
    toConcern_priceRate INT NOT NULL ,  
    CONSTRAINT toConcern_PK PRIMARY KEY  
(toConcern_weekDays,toConcern_priceRate)  
  
    ,CONSTRAINT toConcern_weekDays_FK FOREIGN KEY  
(toConcern_weekDays) REFERENCES Week_days(weekDays_id)  
    ,CONSTRAINT toConcern_priceRate_FK FOREIGN KEY  
(toConcern_priceRate) REFERENCES Price_rate(priceRate_id)  
);
```

V. Script SQL : jeu d'essai

```
-- utilisateurs  
INSERT INTO AppUser (user_pseudo, user_password, user_isAdmin)  
VALUES  
('admin', 'admin', 1),  
('user1', 'user1', 0);  
  
-- nationalités  
INSERT INTO Nationality (nationality_name)  
VALUES  
('Français'),  
('Anglais'),  
('Irlandais'),  
('Espagnol');  
  
-- compagnies  
INSERT INTO Company (company_name, company_city, company_region,  
company_artisticDirector)
```



```
VALUES
('Act for fun', 'Lille', 'Hauts-De-France','Idasiak'),
('Liberty', 'Strasbourg', 'Grand Est','Ammar'),
('Actors of future', 'Montpellier', 'PAKA','Hougron'),
('Piece of paper', 'Nantes', 'Occitanie','Daniel');
```

-- acteurs

```
INSERT INTO Actor (actor_lastname, actor_firstname,
actor_age,actor_company)
VALUES
('Dominici', 'Guillaume', 20,4),
('Marceau', 'Valentin', 19,1),
('Lafleur', 'Célia', 25,2),
('Famechon', 'Corentin', 16,3),
('Ferranti', 'Enguerran', 20,3),
('Lambert', 'Anne-France', 24,3),
('Capiliez', 'Alexis', 19,3),
('Famechon', 'Corentin', 20,2),
('Legall', 'Nicolas', 18,4),
('Mutzenberg', 'Antonin', 27,2),
('Sansom', 'Florian', 17,1),
('Gomez', 'Gabriel', 20,1);
```

-- spectateurs

```
INSERT INTO Spectator (spectator_lastname, spectator_firstname,
spectator_email,spectator_phone)
VALUES
('Jullien', 'Marie-Noël', 'mj@gmail.com','0652846397'),
('Grazer', 'Jonathan', 'jojo@hotmail.fr','0654238541'),
('Grazer', 'Marie-Carmen', 'mg@gmail.com','0652148327'),
('Lambert', 'Thomas', 'toto@laposte.net','0652183745');
```

-- taux

```
INSERT INTO Price_rate (priceRate_name, priceRate_startTime,
priceRate_endTime,priceRate_rate)
VALUES
('tauxWeekEndAprem', '14:00', '18:00',1.5),
('tauxWeekEndSoir', '18:01', '23:59',1.6),
('tauxSemaineAprem', '14:00', '18:00',1.2),
('tauxSemaineSoir', '18:01', '23:59',1.3);
```

-- jours semaine

```
INSERT INTO Week_days (weekDays_name)
VALUES
('lundi'),
('mardi'),
```



```
('mercredi'),  
('jeudi'),  
('vendredi'),  
('samedi'),  
('dimanche');
```

-- thèmes

```
INSERT INTO Theme (theme_name)  
VALUES  
('action'),  
('romance'),  
('policier'),  
('dramatique'),  
('fantastique'),  
('comédie'),  
('historique');
```

-- type de public

```
INSERT INTO Public_Type (publicType_name)  
VALUES  
('adultes'),  
('enfants'),  
('tous public');
```

-- auteurs

```
INSERT INTO Author (author_lastname, author_firstname)  
VALUES  
('Poquelin', 'Jean-Baptiste'),  
('Shakespeare', 'William'),  
('Beckett', 'Samuel'),  
('Corneille', 'Pierre'),  
('Anouilh', 'Jean'),  
('Cocteau', 'Jean'),  
('Camus', 'Albert'),  
('Wilde', 'Oscar'),  
('Lorca', 'Garcia');
```

-- pièces de théâtre

```
INSERT INTO Theater_piece (theaterPiece_name, theaterPiece_description,  
theaterPiece_duration, theaterPiece_seatsPrice,theaterPiece_company,  
theaterPiece_author, theaterPiece_publicType, theaterPiece_theme)  
VALUES  
('Roméo et juliette', 'histoire de Roméo et Juliette.',  
2.5,40,1,2,1,2),  
('Le malade imaginaire', 'dernière comédie écrite par Molière.',  
1.5,30,2,1,3,6),
```




```
('Le Bourgeois gentilhomme', 'Comédie-ballet de Molière.',  
1.3,35,2,1,3,6),  
( 'La Dernière Bande', 'Histoire d amour d un écrivain.',  
1.5,35,3,3,1,2),  
( 'Le Cid', 'Le Cid est une pièce de théâtre tragi-comique en  
vers.',2,40,3,4,1,4),  
( 'Antigone', 'Antigone est une pièce en un acte de Jean Anouilh.',  
2.5,40,4,5,1,4),  
( 'La Voix humaine', 'La Voix humaine est une pièce de théâtre en un  
acte de Jean Cocteau, créée dans une mise en scène de Jean-Pierre Laruy  
à la Comédie-Française le 17 février 1930.', 2,40,1,5,3,6),  
( 'Caligula', 'Caligula est une pièce de théâtre en 4 actes écrite par  
Albert Camus.', 1.4,30,3,7,1,4),  
( 'L Importance d être Constant', 'Comédie théâtrale de l écrivain  
irlandais Oscar Wilde.', 2.3,45,3,8,1,1),  
( 'Noces de sang', 'Pièce de théâtre centrale de l œuvre de Federico  
García Lorca.', 1.5,35,1,9,3,5),  
( 'En attendant Godot', 'En attendant Godot est une pièce de théâtre en  
deux actes.', 2,45,1,3,1,3);
```

-- représentations

```
INSERT INTO Show (show_dateTime, show_seats, show_priceRate,  
show_theaterPiece)  
VALUES  
( '2018-12-02 18:00', 150, 2, 1),  
( '2018-12-02 14:00', 200, 1, 3),  
( '2018-12-03 14:00', 150, 3, 5),  
( '2018-12-03 18:00', 300, 4, 11),  
( '2018-12-04 14:00', 100, 3, 8),  
( '2018-12-04 18:00', 150, 4, 6),  
( '2018-12-05 18:00', 200, 4, 1);
```

-- table nationalité/acteur

```
INSERT INTO To_have (toHave_actor, toHave_nationality)  
VALUES  
(1, 1),  
(1,2),  
(2, 1),  
(3, 4),  
(4, 4),  
(5, 3),  
(6, 3),  
(7, 1),  
(8, 1),  
(9, 1),  
(10, 2),
```



```
(11, 2),  
(12, 2) ,  
(12, 1);
```

-- table nationalité/auteur

```
INSERT INTO To_be_of (toBeOf_author, toBeOf_nationality)  
VALUES  
(1, 1),  
(2, 2),  
(3, 3),  
(4, 1),  
(5, 1),  
(6, 1),  
(7, 1),  
(8, 2),  
(8, 3),  
(9, 4);
```

-- table spectateur/représentation

```
INSERT INTO To_book (toBook_spectator, toBook_show, seatsBooked)  
VALUES  
(1, 1 , 5),  
(2, 3 , 10),  
(3, 5 , 20),  
(4, 5 , 30);
```

-- table joursSemaines/taux

```
INSERT INTO To_concern (toConcern_weekDays, toConcern_priceRate)  
VALUES  
(1, 3),  
(2, 3),  
(3, 3),  
(4, 3),  
(5, 3),  
(6, 1),  
(7, 1),  
(1, 4),  
(2, 4),  
(3, 4),  
(4, 4),  
(5, 4),  
(6, 2),  
(7, 2);
```

