

-- Question 1 --

```
CREATE DATABASE club_cinema;
USE club_cinema;
```

-- Question 2 --

```
CREATE TABLE Film (
    NumFilm INT NOT NULL PRIMARY KEY,
    TitreFilm VARCHAR(64) NOT NULL,
    Genre VARCHAR(32)
);

CREATE TABLE Cinema (
    NumCin INT NOT NULL PRIMARY KEY,
    NomCin VARCHAR(64) NOT NULL,
    AdresseCin VARCHAR(128) NOT NULL
);

CREATE TABLE Projection (
    NumFilm INT NOT NULL,
    NumCin INT NOT NULL,
    `Date` DATE NOT NULL DEFAULT NOW(),
    Heure TIME NOT NULL DEFAULT NOW(),
    PRIMARY KEY (NumFilm, NumCin, `Date`, Heure),
    CONSTRAINT fk_Projection_1 FOREIGN KEY (NumFilm)
        REFERENCES Film (NumFilm)
        ON UPDATE CASCADE
        ON DELETE CASCADE,
    CONSTRAINT fk_Projection_2 FOREIGN KEY (NumCin)
        REFERENCES Cinema (NumCin)
        ON UPDATE CASCADE
        ON DELETE CASCADE
);
```

-- Question 3 --

```
INSERT INTO Cinema (NumCin, NomCin, AdresseCin)
VALUES (50, 'Le Parnasse', 'Av. Habib Bourguiba'),
(51, 'Cinévog', '10 Rue Saïd Abou Baker');
INSERT INTO Film (NumFilm, TitreFilm, Genre)
VALUES (1, 'Summer Holiday', 'Comédie'),
(2, 'Matrix', 'Science-fiction'),
(3, 'The Kid', 'Comédie');
```

-- Question 4 --

-- (a) --

-- Projection du même film dans le même cinéma deux fois par jour.

```
INSERT INTO Projection (NumFilm, NumCin, `Date`, Heure)
VALUES (1, 50, '2022-01-15', '10:00'),
(1, 50, '2022-01-15', '15:00');
```

-- (b) --

```
DELETE FROM Projection WHERE NumFilm = 1 AND NumCin = 50 AND `Date` = '2022-01-15';
```

-- (c) --

-- pas encore étudiée

-- (d) --

```
INSERT INTO Projection (NumFilm, NumCin, `Date`, Heure)
VALUES (1, 50, '2022-01-15', '10:00'),
(2, 50, '2022-01-15', '15:00'),
(3, 50, '2022-01-15', '19:00'),
(1, 50, '2022-01-16', '10:00'),
(2, 50, '2022-01-16', '15:00'),
(3, 50, '2022-01-16', '19:00'),
(1, 51, '2022-01-15', '14:00'),
(2, 51, '2022-01-15', '20:00'),
(1, 51, '2022-01-16', '14:00'),
(3, 51, '2022-01-16', '20:00');
```

-- Question 5 --

-- (a) --

```
SELECT NomCin FROM Cinema;
```

-- (b) --

```
SELECT NomCin, AdresseCin FROM Cinema WHERE NumCin = 51;
```

```
-- (c) --  
-- pas encore étudiée  
SELECT COUNT(NumCin) FROM Cinema;  
-- (d) --  
SELECT TitreFilm, Genre FROM Film WHERE Genre = 'Comédie';  
-- (e) --  
SELECT TitreFilm, Genre FROM Film WHERE Genre = 'Comédie' ORDER BY TitreFilm;  
-- (f) --  
SELECT TitreFilm, Genre FROM Film WHERE Genre = 'Comédie' ORDER BY TitreFilm DESC;
```