Cinema Hall Ticket Booking System

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SQL DDL Statement:

```
50 v CREATE TABLE Movie
51
              movie_title VARCHAR(255) PRIMARY KEY CHECK (movie_title IS NOT NULL AND movie_title <> ''),
genre VARCHAR(50) NOT NULL CHECK (genre IN ('Action', 'Comedy', 'Drama', 'Horror', 'Sci-Fi', 'Documentary')), -- Add other genres as n
duration INT CHECK (duration <= 240), -- Maximum duration is 4 hours (240 minutes)
              release date DATE NOT NULL.
              price DECIMAL(10, 2) not null CHECK (price >= 0) -- Ticket price must be non-negative
57
      );
58
59
           - Screen Table
61 - CREATE TABLE Screen
62
              screen_id INT PRIMARY KEY,
              cinema_name VARCHAR(255) not null,
cinema_pincode VARCHAR(6) not null,
64
65
              capacity INT not null CHECK (capacity > 0), -- Ensure capacity is greater than 0
FOREIGN KEY (cinema_name, cinema_pincode) REFERENCES Cinema(cinema_name, cinema_pincode) ON DELETE CASCADE ON UPDATE CASCADE
```

```
70 - CREATE TABLE Booking
             booking id INT PRIMARY KEY AUTO INCREMENT,
              user_email VARCHAR(250) NOT NULL,
             showtime_id INT NOT NULL, booking_date DATE DEFAULT CURRENT_DATE, -- Ensure booking date is not in the future
 74
 76
             seat_number INT NOT NULL CHECK (seat_number > 0), -- Assuming seat numbers are positive integers
FOREIGN KEY (user_email) REFERENCES User(user_email) ON DELETE CASCADE ON UPDATE CASCADE,
              FOREIGN KEY (showtime_id) REFERENCES Showtime(showtime_id) ON DELETE CASCADE ON UPDATE CASCADE
 79 );
          -- Set the auto-increment value to start from 100000
81
 82 ALTER TABLE Booking AUTO_INCREMENT = 100000;
        -- Cancellation Table
 85 - CREATE TABLE Cancellation
             user email varchar(250) NOT NULL.
 87
              showtime_id INT NOT NULL,
 88
             booking_date DATE NOT NULL CHECK (booking_date <= CURRENT_DATE), -- Ensure booking date is not in the future cancellation_date DATE DEFAULT CURRENT_DATE, -- Ensure cancellation date is not in the future seat_number INT NOT NULL CHECK (seat_number > 0), -- Assuming seat numbers are positive integers

PRIMARY KEY (cancellation_date, user_email), -- Composite key: cancellation_date and user_email
 89
 91
 92
              FOREIGN KEY (user_email) REFERENCES Users(user_email) ON DELETE CASCADE ON UPDATE CASCADE
             FOREIGN KEY (showtime_id) REFERENCES Showtime(showtime_id) ON DELETE CASCADE ON UPDATE CASCADE
```

```
97 - CREATE TABLE Revenue
 99
            cinema_name VARCHAR(255) not null.
            cinema_pincode VARCHAR(6) not null,
100
101
             movie_title VARCHAR(255) not null,
            booked_seats INT CHECK (booked_seats >= 0),
            total_revenue DECIMAL(10, 2) CHECK (total_revenue >= 0),
            PRIMARY KEY (cinema_name, cinema_pincode, movie_title),
FOREIGN KEY (cinema_name, cinema_pincode) REFERENCES Cinema(cinema_name, cinema_pincode) ON DELETE CASCADE ON UPDATE CASCADE,
104
            FOREIGN KEY (movie_title) REFERENCES Movie(movie_title) ON DELETE CASCADE ON UPDATE CASCADE
106
108
          Payment Table
109 - CREATE TABLE Payment
110
            transaction_id INT PRIMARY KEY AUTO_INCREMENT,
            amount DECTMAL(10, 2) CHECK (amount >= 0), -- Amount must be non-negative showtime_id INT NOT NULL,
            user_email VARCHAR(255) NOT NULL,
FOREIGN KEY (showtime_id) REFERENCES Showtime(showtime_id) ON DELETE CASCADE ON UPDATE CASCADE,
114
116
            FOREIGN KEY (user_email) REFERENCES User(user_email) ON DELETE CASCADE ON UPDATE CASCADE
118 -- Set the auto-increment value to start from 1000000
119 ALTER TABLE Payment AUTO_INCREMENT = 1000000;
```