ASSIGNMENT REPORT

DBI202-DATABASE OF MOVIE TICKET MANAGEMENT SYSTEM

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I/ PROBLEMS:

This database is designed to manage information related to a movie theater, covering various aspects such as movies, tickets, customers, staff, orders, screens, genres, and ticket types. The database schema includes several interconnected tables, each serving a specific purpose to organize and store relevant data efficiently.

II/ SYSTEM DESCRIPTION:

This system is designed to support and optimize key operations within a movie theater. Here is a detailed description of how the system performs its primary functions:

1. Movie Information Management (MOVIE):

The system stores detailed information about movies, including the movie name, genre, release date, and other details. Managing genres helps categorize and search for movies easily.

2. Ticket Sales Management (TICKET):

The system helps manage the ticket sales process, including information about ticket types, orders, the currently playing movie, the theater screen, seat numbers, showtimes, and release dates. This facilitates tracking ticket sales, customer information, and timely management.

3. Movie Genre Information Management (MOVIEGENRE):

The system holds information about different movie genres, aiding in the organization and classification of movies by genre. This provides a foundation for event organization and promotion.

4. Customer Information Management (CUSTOMER):

The system stores personal information about customers, including names, addresses, phone numbers, and birthdates. This assists in creating and managing customer accounts, as well as tracking their ticket purchase history.

5. Staff Information Management (STAFF):

The system tracks information about staff members, including names, addresses, phone numbers, birthdates, and genders. Managing staff information helps in human resource management, scheduling, and tracking employee activities.

6. Ticket Type Management (TICKETTYPE):

The system maintains information about various ticket types and their prices. This helps in managing ticket prices, categorizing customers, and easily tracking revenue from each ticket type.

7. Theater Screen Information Management (SCREEN):

The system tracks information about the different movie screens in the theater, aiding in organizing and scheduling movie showings. This information is crucial for classifying movie events and managing theater resources.

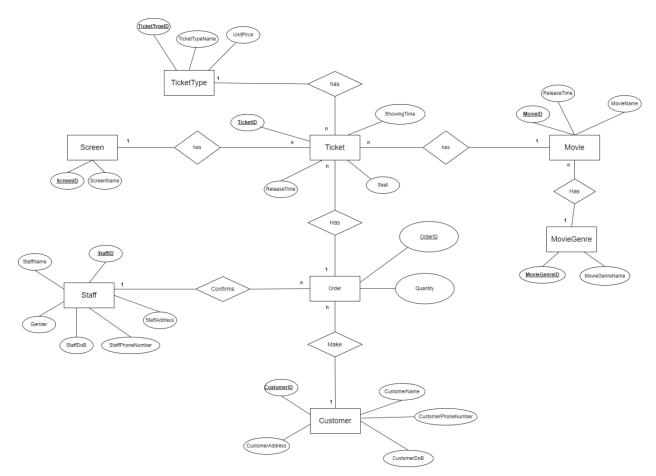
8. Order Detail Management (ORDERDETAIL):

The system stores information about orders, including the quantity of tickets, customer information, and the staff member handling the order. The addition of the Total column helps track the total value of each order.

The system provides a tightly integrated database with relationships between tables to ensure data consistency and efficiency in managing information. For example, the MovieGenreID in the MOVIE table references the MovieGenreID in the MOVIEGENRE table, establishing a link between movies and their genres.

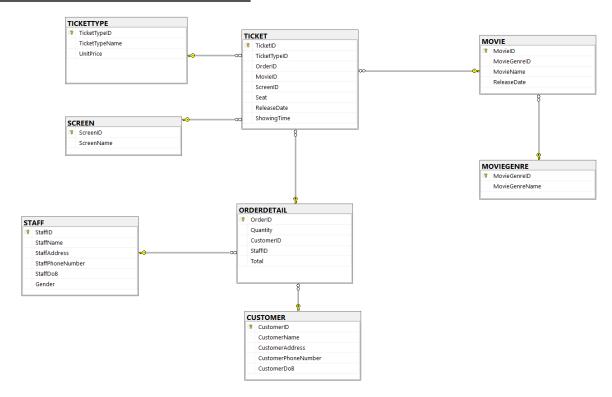
Furthermore, the use of foreign key constraints ensures data integrity, and the sample data illustrates the practical use of the database in a movie theater setting. The system is capable of supporting functions such as searching, tracking revenue, and efficiently managing customer and staff information.

III/ ER DIAGRAM



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IV/ RELATIONAL MODEL



V/ DATA DESCRIPTION AND DETAILED CONSTRAINTS

Data Element	Description	Composition or Data Type	Length	Values
MovieID	Unique identifier for each movie	CHAR(10)	10 characters	Alphanumeric, 10 characters.
MovieGenrelD	Foreign key referencing MovieGenre table, indicating the genre of the movie.	CHAR(10)	10 characters	Alphanumeric, 10 characters.
MovieName	Name of the movie	NVARCHAR(100)	Up to 100 characters.	Alphanumeric, up to 100 characters.
ReleaseDate	Date when the movie was released	DATETIME	N/A	Date and time
TicketID	Unique identifier for each ticket	CHAR(10)	10 characters	Alphanumeric, 10 characters.

TicketTypeID	Foreign key referencing TicketType table, indicating the type of the ticket.	CHAR(10)	10 characters	Alphanumeric, 10 characters.
OrderID	Foreign key referencing OrderDetail table, indicating the order associated with the ticket.	CHAR(10)	10 characters	Alphanumeric, 10 characters.
MovieID	Foreign key referencing OrderDetail table, indicating the order associated with the ticket.	CHAR(10)	10 characters	Alphanumeric, 10 characters.
ScreenID	Foreign key referencing OrderDetail table, indicating the order associated with the ticket.	CHAR(10)	10 characters	Alphanumeric, 10 characters.
Seat	Seat number for the ticket.	INT	N/A	Date and time
Release Date	Date when the ticket is released	DATETIME	N/A	Date and time

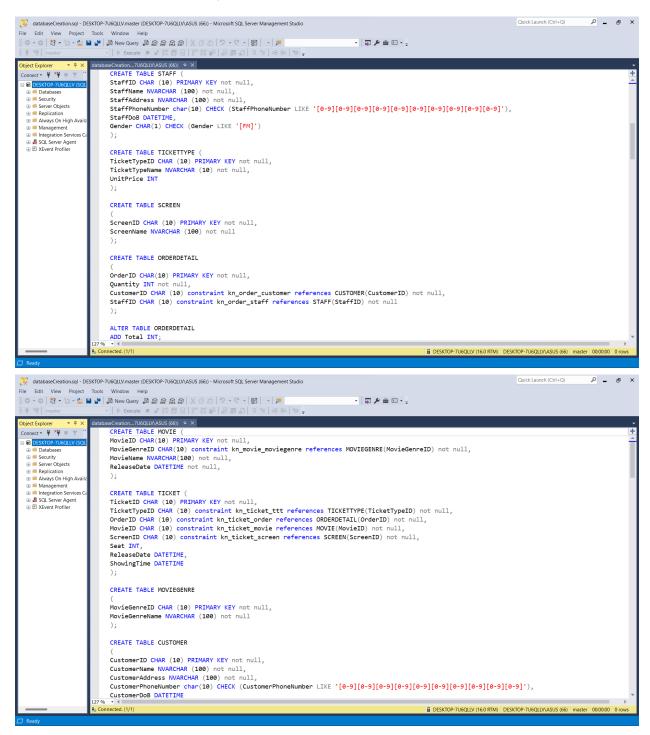
ShowingTime	Date and time when the movie associated with the ticket is scheduled to be shown.	DATETIME	N/A	Date and time
MovieGenreID	Unique identifier for each movie genre	CHAR(10)	10 characters	Alphanumeric, 10 characters
MovieGenreName	Name of the movie genre	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
CustomerID	Unique identifier for each customer.	CHAR(10)	10 characters	Alphanumeric, 10 characters
CustomerName	Name of the customer.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
CustomerAddress	Address of the customer.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
CustomerPhoneNumber	Phone number of the customer.	CHAR(10)	10 characters	Alphanumeric, 10 characters
CustomerDoB	Date of Birth of the customer.	DATETIME	N/A	Date
StaffID	Unique identifier for each staff member.	CHAR(10)	10 characters	Alphanumeric, 10 characters

StaffName	Name of the staff member.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
StaffAddress	Address of the staff member.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
StaffPhoneNumber	Phone number of the staff member.	CHAR(10)	10 characters	Alphanumeric, 10 characters
StaffDoB	Date of Birth of the staff member.	DATETIME	N/A	Date
Gender	Gender of the staff member (M for Male, F for Female).	CHAR(1)	1character	'M' or 'F'
TicketTypeID	Unique identifier for each ticket type.	CHAR(10)	10 characters	Alphanumeric, 10 characters
TicketTypeName	Name of the ticket type.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
UnitPrice	The price of a single ticket for this type.	INT	N/A	Integer
ScreenID	Unique identifier for each screen.	CHAR(10)	10 characters	Alphanumeric, 10 characters

ScreenName	Name or identifier of the screen.	NVARCHAR(100)	Up to 100 characters	Alphanumeric, up to 100 characters
OrderID	Unique identifier for each order.	CHAR(10)	10 characters	Alphanumeric, 10 characters
Quantity	The quantity of tickets in the order.	INT	N/A	Integer
CustomerID	Foreign key referencing Customer table, indicating the customer associated with the order.	CHAR(10)	10 characters	Alphanumeric, 10 characters
StaffID	Foreign key referencing Staff table, indicating the staff member associated with the order.	CHAR(10)	10 characters	Alphanumeric, 10 characters
Total	The total cost of the order.	INT	N/A	Integer

VI/ INSTALLATION

1. CREATE TABLE, INSERT DATA



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                                                    -- Insert data into the MOVIEGENRE table

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                                                   INSERT INTO MOVIEGENRE (MovieGenreID, MovieGenreName)
       Server Objects
                                                   VALUES
                                                       ('Genre1', 'Action'),
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                                                        ('Genre2', 'Comedy'),
('Genre3', 'Drama'),
       Integration Services
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                                                          'Genre4', 'Horror')

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■ XEvent Profile

                                                        ('Genre5', 'Science Fiction'),
                                                       ('Genre6', 'Romance'),
('Genre7', 'Thriller'),
('Genre8', 'Adventure'),
('Genre9', 'Animation'),
                                                       ('Genre10', 'Fantasy');
                                                    -- Insert data into the CUSTOMER table
                                                   INSERT INTO CUSTOMER (CustomerID, CustomerName, CustomerAddress, CustomerPhoneNumber, CustomerDoB)
                                                   VALUES
                                                      ALUES
('C1', 'John Doe', '123 Main St, City', '1234567890', '1990-01-15'),
('C2', 'Jane Smith', '456 Elm St, City', '9876543210', '1985-07-22'),
('C3', 'Michael Johnson', '789 Oak St, City', '555111222', '1978-03-10'),
('C4', 'Sarah Brown', '234 Pine St, City', '998887777', '2000-05-30'),
('C5', 'David Lee', '567 Maple St, City', '3334445555', '1995-11-18'),
                                                       ('CG', 'Emily Wilson', '890 Birch St, City', '7776665555', '1980-09-08'),
('CG', 'Emily Wilson', '890 Birch St, City', '7776665555', '1980-09-08'),
('CG', 'Daniel Davis', '123 Cedar St, City', '111223333', '1992-12-20'),
('C8', 'Olivia White', '345 Redwood St, City', '4443332222', '1987-04-27'),
('C9', 'William Hall', '678 Sequoia St, City', '6665554444', '2002-08-14'),
('C10', 'Sophia Miller', '901 Hemlock St, City', '2227778888', '1975-06-02');
                                                   -- Insert data into the STAFF table
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                                                      ('C9', 'William Hall', '678 Sequoia St, City', '6665554444', '2002-08-14'), ('C10', 'Sophia Miller', '901 Hemlock St, City', '2227778888', '1975-06-02');
  Connect ▼ ¥ ■ ▼
  -- Insert data into the STAFF table
                                                   {\tt INSERT\ INTO\ STAFF\ (StaffID,\ StaffName,\ StaffAddress,\ StaffPhoneNumber,\ StaffDoB,\ Gender)}
                                                   VALUES
                                                       ALUES
('Staff1', 'Robert Johnson', '111 Staff Rd, City', '555555555', '1988-02-12', 'M'),
('Staff2', 'Maria Garcia', '222 Staff Rd, City', '6666666666', '1991-09-25', 'F'),
('Staff3', 'Michael Smith', '333 Staff Rd, City', '7777777777', '1980-04-07', 'M'),
('Staff4', 'Jennifer Davis', '444 Staff Rd, City', '8888888888', '1995-12-03', 'F'),
('Staff4', 'Jennifer Staff Rd, City', '8888888888', '1995-12-03', 'F'),
                                                      ('Staff'9', 'David Martinez', 'S55 Staff Rd, City', '8888888888', '199-17-03', 'F'),
('Staff6', 'Linda Browm', '666 Staff Rd, City', '1111111111', '1983-06-18', 'F'),
('Staff7', 'John Wilson', '777 Staff Rd, City', '222222222', '1993-10-29', 'M'),
('Staff8', 'Susan Lee', '888 Staff Rd, City', '222222222', '1993-08-29', 'F'),
('Staff9', 'Daniel Jackson', '999 Staff Rd, City', '4444444444', '1990-11-12', 'M'),
('Staff10', 'Emily Taylor', '101 Staff Rd, City', '555555555', '1987-08-05', 'F');
                                                                                                                                                                                                                        'M'),
                                                    -- Insert data into the MOVIE table
                                                   INSERT INTO MOVIE (MovieID, MovieGenreID, MovieName, ReleaseDate)
                                                       ('M1', 'Genre1', 'Action Movie 1', '2023-01-15'),
('M2', 'Genre2', 'Comedy Movie 1', '2022-12-10'),
('M3', 'Genre3', 'Drama Movie 1', '2023-02-20'),
                                                                                                                          ', '2022-11-05'),
                                                          'M4', 'Genre4', 'Horror Movie 1
                                                        ('M5', 'Genre5', 'Sci-Fi Movie 1', '2022-09-30')
                                                        ('M6', 'Genre6', 'Romantic Movie 1', '2023-03-25'),
                                                       ('Mo', 'Genrea', 'Thriller Movie 1', '2023-04-08'), ('Mo', 'Genrea', 'Thriller Movie 1', '2023-04-08'), ('Mo', 'Genrea', 'Adventure Movie 1', '2022-10-15'), ('Mo', 'Genrea', 'Animation Movie 1', '2022-08-01'); ('M10', 'Genrea', 'Fantasy Movie 1', '2022-08-01');
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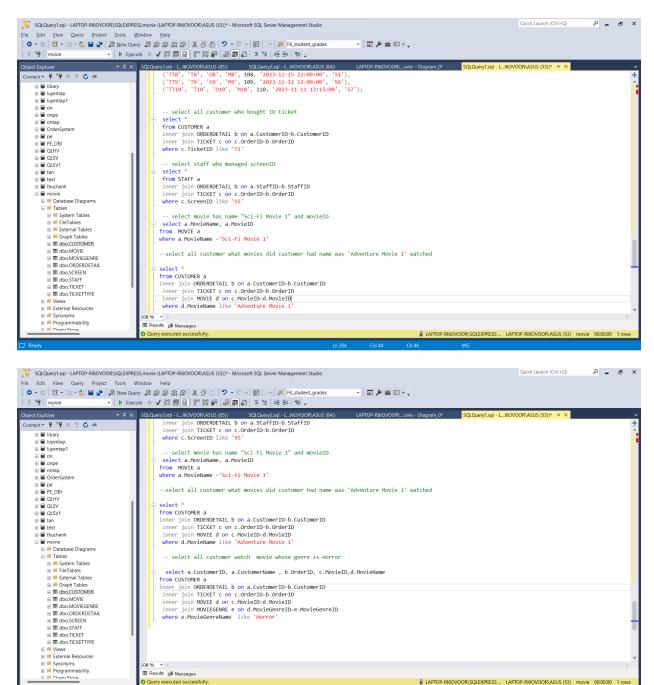
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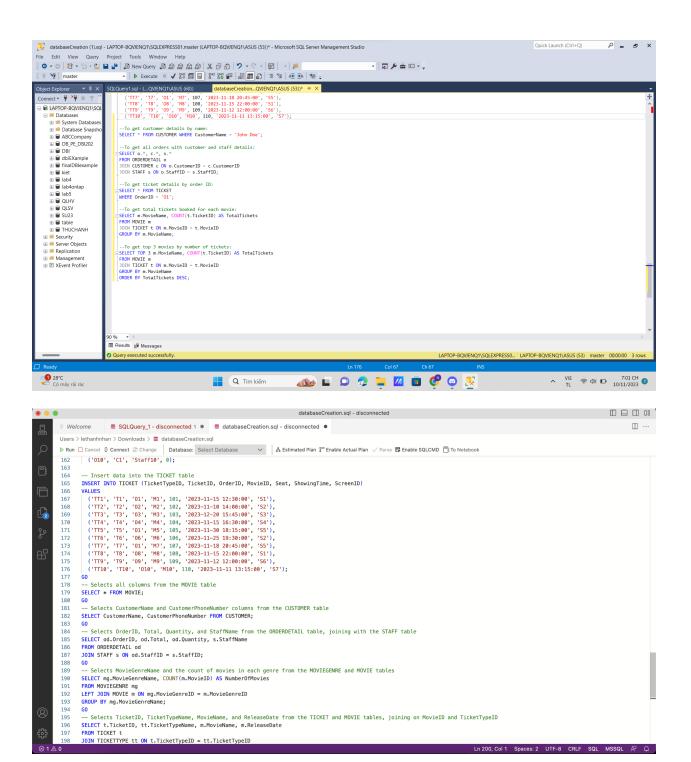
Databases

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Server Objects
                                             -- Insert data into the SCREEN table
                                             INSERT INTO SCREEN (ScreenID, ScreenName)
                                            VALUES
                                                ('S1', 'Screen 1'),
                                               ('S2', 'Screen 2'),
('S3', 'Screen 3'),
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       Integration Services
                                                 ('S4', 'Screen 4'),
     SQL Server Agent
                                                   'S5', 'Screen 5'),
     ('S6', 'Screen 6'),
                                                   'S7', 'Screen 7'),
                                               ('S8', 'Screen 8'),
('S9', 'Screen 9'),
('S10', 'Screen 10');
                                             -- Insert data into the TICKETTYPE table
                                            {\color{red} \textbf{INSERT INTO TICKETTYPE (TicketTypeID, TicketTypeName, UnitPrice)} \\
                                            VALUES
                                               ALUES
('TT1', 'Standard', 10),
('TT2', 'VIP', 20),
('TT3', 'Child', 5),
('TT4', 'Senior', 7),
('TT5', 'Student', 8),
('TT6', 'Matinee', 6),
('TT7', 'Group', 15),
('TT8', 'Family', 25),
('TT9', 'Combo', 12),
('TT10', 'Special', 18);
                                             -- Insert data into the ORDERDETAIL table
                                            INSERT INTO ORDERDETAIL (OrderID, CustomerID, StaffID, Quantity)
                                                                                                                                                                                                   ☐ DESKTOP-7U6QLLV (16.0 RTM) | DESKTOP-7U6QLLV\ASUS (66) | master | 00:00:00 | 0 rc
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   -- Insert data into the ORDERDETAIL table
                                             INSERT INTO ORDERDETAIL (OrderID, CustomerID, StaffID, Quantity)
                                            VALUES
                                                ('01', 'C1', 'Staff1', 0),
                                                ('02', 'C1', 'Staff2', 0),
('03', 'C3', 'Staff3', 0),
                                                ('04', 'C2', 'Staff4', 0),
('05', 'C8', 'Staff5', 0),
                                               ('06', 'C2', 'Staff5', 0),
('06', 'C2', 'Staff6', 0),
('07', 'C1', 'Staff7', 0),
('08', 'C5', 'Staff8', 0),
('09', 'C7', 'Staff9', 0),
('010', 'C1', 'Staff10', 0);
                                             -- Insert data into the TICKET table
                                             INSERT INTO TICKET (TicketTypeID, TicketID, OrderID, MovieID, Seat, ShowingTime, ScreenID)
                                            VALUES
                                               ALUES
('TT1', 'T1', '01', 'M1', 101, '2023-11-15 12:30:00', '51'),
('TT2', 'T2', '02', 'M2', 102, '2023-11-10 14:00:00', '52'),
('TT3', 'T3', '03', 'M3', 103, '2023-12-20 15:45:00', '53'),
('TT4', 'T4', '04', 'M4', 104, '2023-11-15 16:36:00', '54'),
                                                ('TT4', 'T4', '04', 'M4', 104, '2023-11-15 16:30:00', 'S4'), ('TT5', 'T5', '01', 'M5', 165, '2023-11-30 18:15:00', 'S5'), ('TT6', 'T6', '06', 'M6', 106, '2023-11-25 19:30:00', 'S2'), ('TT7', 'T7', '01', 'M7', 107, '2023-11-18 20:45:60', 'S5'), ('TT8', 'T8', '08', 'M8', 108, '2023-11-15 22:00:00', 'S1'), ('TT9', 'T9', '09', 'M9', 109, '2023-11-11 21:00:00', 'S6'), ('TT10', 'T10', '010', 'M10', 110, '2023-11-11 13:15:00', 'S7');
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2. SELECT



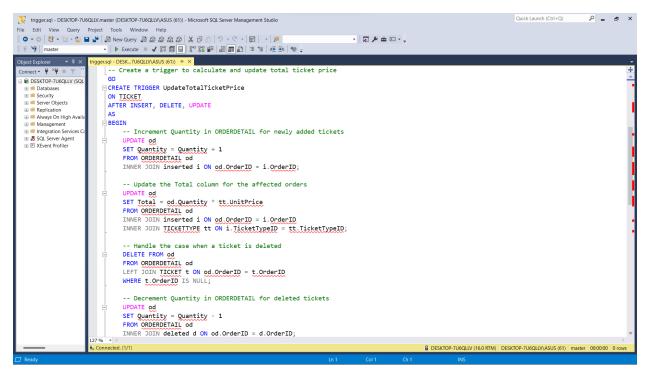


3. TRIGGER

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| Provide ■ ✓ 窓面目 8 窓廊 副副立 宝宝 年表 物。
| Provide ■ Create a trigger that updates the ReleaseDate when a new ticket is inserted
                           CREATE TRIGGER Ticket_Insert_Trigger
  ■ DESKTOP-7U6QLLV (SQL
                             ON TICKET
   Databases
Security
Server Objects
                            AFTER INSERT
  BEGIN
                                 SET NOCOUNT ON;

    ■ Management
    ■ Integration Services

  -- Update the ReleaseDate for the newly inserted rows
                                 UPDATE TICKET
                                 SET ReleaseDate = GETDATE()
                                 FROM TICKET
                                 INNER JOIN inserted ON TICKET.TicketID = inserted.TicketID;
                             END;
                            ALTER TABLE TICKET
                             ADD TotalPrice INT;
                             -- Create a trigger to calculate and update total ticket price
                           CREATE TRIGGER UpdateTotalTicketPrice
                            ON TICKET
                             AFTER INSERT, DELETE, UPDATE
                                 -- Increment Quantity in ORDERDETAIL for newly added tickets
                                 SET Quantity = Quantity + 1
                                 FROM ORDERDETAIL od
INNER JOIN inserted i ON od.OrderID = i.OrderID;
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                                WHERE t.OrderID IS NULL;
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                                -- Decrement Quantity in ORDERDETAIL for deleted tickets
  SET Quantity = Quantity - 1

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                                FROM ORDERDETAIL od
                                INNER JOIN deleted d ON od.OrderID = d.OrderID;

    ■ 易 SQL Server Agent
    ■ ≦ XEvent Profiler

                            -- Create a trigger to check if the showing date is greater than release date or not
                          CREATE TRIGGER isValidShowingDate
                           ON TICKET
AFTER INSERT, UPDATE
                          BEGIN
                                IF EXISTS (SELECT 1 FROM inserted WHERE ShowingTime < ReleaseDate)
                               BEGIN
                                   ROLLBACK TRANSACTION;
                                   PRINT 'Ngay chieu phim da qua';
                                END
                           END;
                                                                                                                           ☐ DESKTOP-7U6QLLV (16.0 RTM) | DESKTOP-7U6QLLV\ASUS (61) | master | 00:00:00 | 0 ros
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4. PROCEDURE

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                        ₩ W | master
 ⊟CREATE PROCEDURE CREATENEWCUSTOMER

(@MKH char (10), @HoTen NVARCHAR (100), @Diachi NVARCHAR (100), @SDT char (20), @Ngaysinh datetime)
                         BEGIN
                         INSERT INTO CUSTOMER VALUES
                          (@MKH, @HoTen, @Diachi, @SDT, @Ngaysinh)
                         EXECUTE CREATENEWCUSTOMER 'MaKHIl', N'THU', N'TP', '01234', '9/21/1994';
                          -- Thêm phim mới
                        CREATE PROC ADDNEWMOVIE
                          (@{\tt MaPhim\ char}(10),\ @{\tt MaLP\ char}\ (10),\ @{\tt TenPhim\ NVARCHAR}\ (100),\ @{\tt NVARCHAR}(100))
                         BEGIN
                             INSERT INTO MOVIE
                             VALUES (@MaPhim, @MaLP, @TenPhim, @NSX)
                        EXECUTE ADDNEWMOVIE 'MP11', 'LP02', 'DP03' ,N'PHI CO',N'ANHTHU';
                          -- Sửa thông tin khách hàng
                        CREATE PROC MODIFYCUSTOMERINFORMATION
                          (@MakH char(10), @HoTen NVARCHAR (100), @Diachi NVARCHAR(100), @SDT char(20), @NgaySinh datetime)
                                                                                                                    DESKTOP-7U6QLLV (16.0 RTM) DESKTOP-7U6QLLV\ASUS (63) master | 00:00:00 | 0 r
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EXECUTE ADDNEWWOYIE 'MP11', 'LP02', 'DP03', N'PHI CO',N'ANHTHU';
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  CREATE PROC MODIFYCUSTOMERINFORMATION

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                            (@MakH char(10), @HoTen NVARCHAR (100), @Diachi NVARCHAR(100), @SDT char(20), @NgaySinh datetime)
  BEGIN

    ■ 易 SQL Server Agent
    ■ ≦ XEvent Profiler

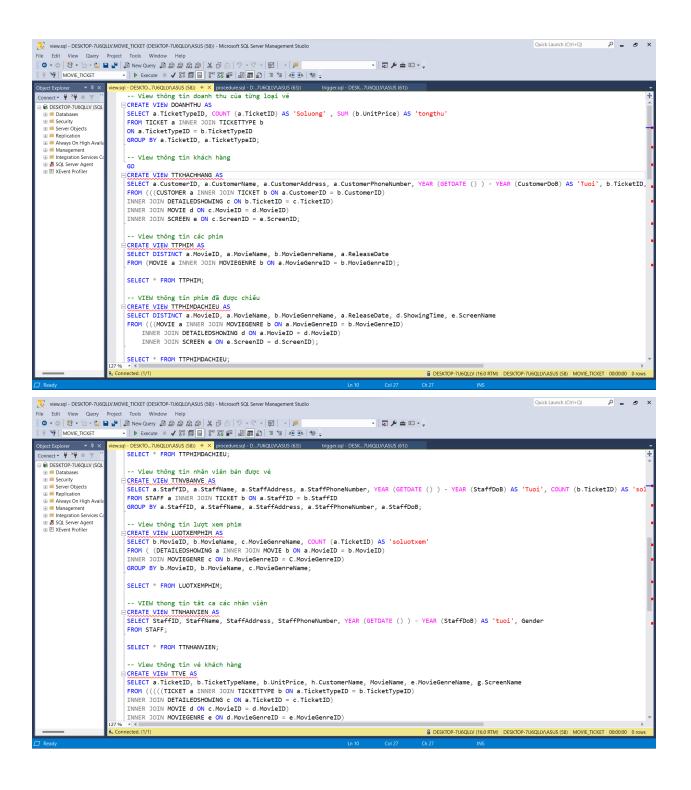
                                SET CustomerName = @HoTen, CustomerAddress = @DiaChi, CustomerPhoneNumber = @SDT, CustomerDoB = @NgaySinh
                                FROM CUSTOMER
                                WHERE CustomerID = @MakH
                          EXECUTE SUAKH @MaKH='MKH09', CHoTen= N'HUÝNH THU',

@Diachi-N'TP', @SDT='01234', @NgaySinh=19/21/19941
                            -- Sửa thông tin nhân viên
                          □CREATE PROC MODIFYSTAFFINFORMATION

(@MaNV char (10), @MoTen NVARCHAR (100), @Diachi NVARCHAR (100), @SDT char (20), @Ngaysinh datetime, @Gt NVARCHAR (10))
                           BEGIN
                                SET StaffID = @HoTen, StaffAddress = @Diachi, StaffPhoneNumber = @SDT, StaffDoB = @Ngaysinh, Gender = @Gt
                                FROM STAFF
WHERE StaffID = @MaNV
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                                WHERE StaffID = @MaNV
 -- Sửa thông tin phim

⊡CREATE PROC MODIFYMOVIEINFORMATION
                            (@MaPhim char(10), @MALP char(10), @TenPhim NVARCHAR (100), @NSX NVARCHAR(100))
                           BEGIN
                                SET MovieID = @MaPhim, MovieGenreID = @MALP, MovieName = @TenPhim, ReleaseDate = @NSX
                                FROM MOVIE
                                WHERE MovieID = @MaPhim
                            -- Liệt kê số lượt xem của 1 bộ phim
                           CREATE PROC LXP
                            (@tenphim NVARCHAR (100))
                           BEGIN
                                SELECT MovieName, COUNT(TicketID) As 'Luot xem'
                                FROM ORDERDETAIL a
                                ON T.OrderID = a.OrderID
INNER JOIN MOVIE b
                                ON T.MovieID = b.MovieID
WHERE MovieName = @tenphim
                                GROUP BY MovieName
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5. VIEW



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                                                                                      SELECT * FROM TTNHANVIEN;
                                                                                       -- View thông tin vé khách hàng
                                                                                   CREATE VIEW TIVE AS
SELECT a TicketID, b.TicketTypeName, b.UnitPrice, h.CustomerName, MovieName, e.MovieGenreName, g.ScreenName
FROM ((((TICKET a INNER JOIN TICKETTYPE b ON a TicketTypeID = b.TicketTypeID)
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                                                                                      INNER JOIN MOVIEGENRE e ON d.MovieGenreID = e.MovieGenreID)

INNER JOIN MOVIEGENRE e ON d.MovieGenreID = e.MovieGenreID)
                                                                                       INNER JOIN SCREEN g ON g.ScreenID = c.ScreenID)
                                                                                       INNER JOIN CUSTOMER h ON h.CustomerID = a.CustomerID;
                                                                                          -- View thông tin phòng phim
                                                                                    CREATE VIEW TTPHONG AS
                                                                                      SELECT a.ScreenName, c.MovieName, b.ShowingTime, COUNT (b.TicketID) AS 'Songuoixem' FROM (SCREEN a INNER JOIN DETAILEDSHOWING b ON a.ScreenID = b.ScreenID)
                                                                                      INNER JOIN MOVIE c ON b.MovieID = c.MovieID
GROUP BY a.ScreenName, c.MovieName, b.ShowingTime;
```

VII/ CONCLUSION

- In summary, the movie theater management system, with its well-defined tables, relationships, and constraints, provides a solid foundation for effective and organized data handling in a dynamic cinema setting. Its structured design enables seamless management of movies, tickets, customers, staff, orders, screens, genres, and ticket types, contributing to a streamlined and efficient movie-going experience for both customers and cinema staff.