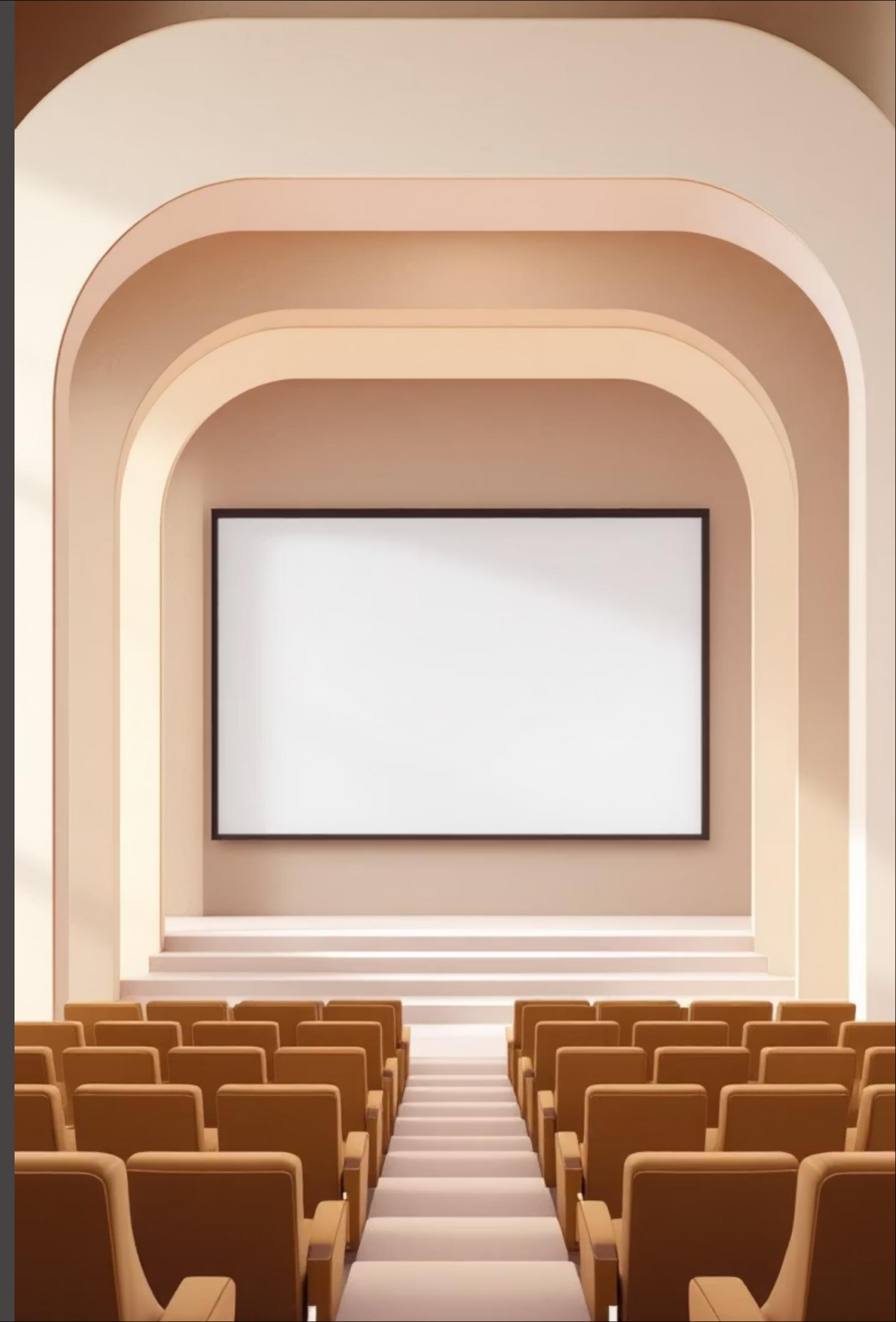


Movie Booking SQL Project

Analyzing and managing movie booking data through SQL queries to understand customer trends, payment statuses, and show performance.



Project Objective



Data Management

Analyze and manage comprehensive movie booking data using SQL queries.



Customer Insights

Understand customer booking trends and behavior patterns.



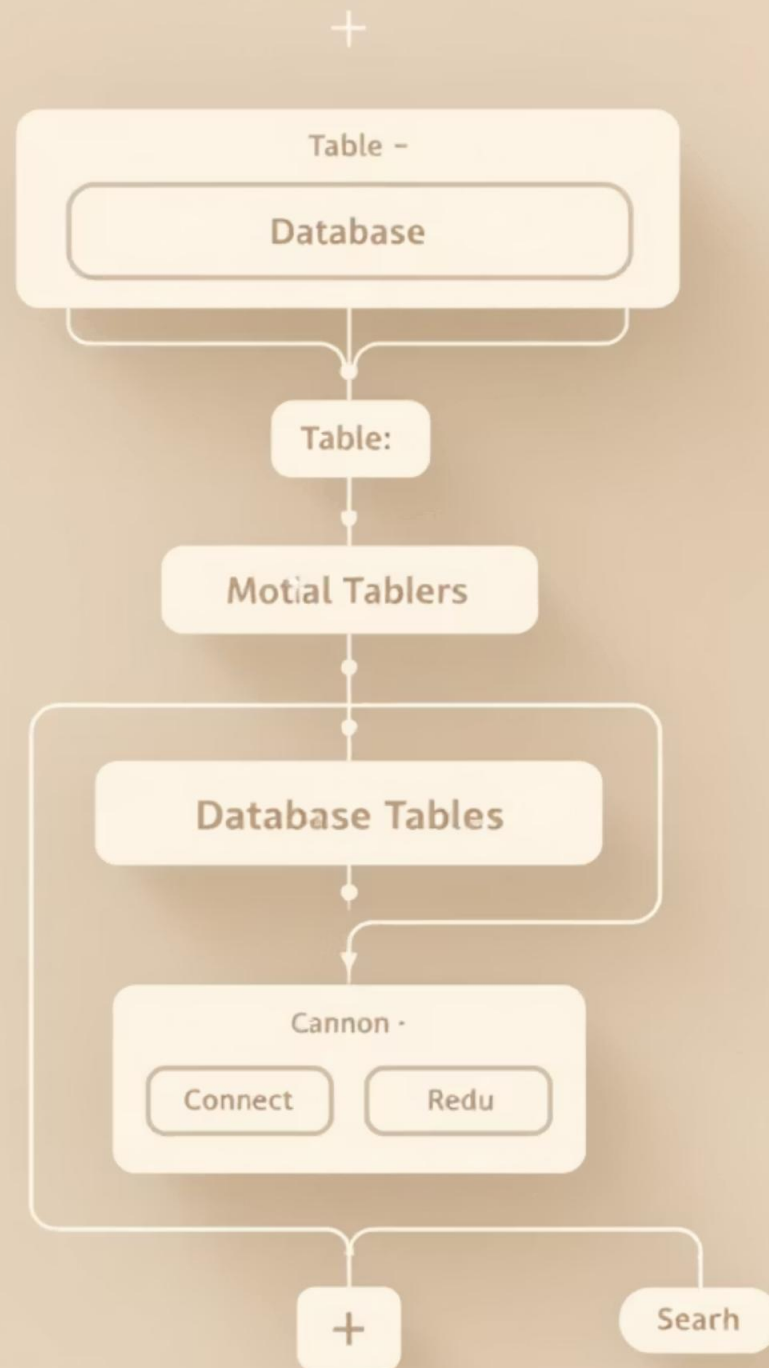
Payment Tracking

Monitor payment statuses and transaction trends.



Show Performance

Evaluate movie and show performance through database operations.



Dataset Overview

Data Source

Dataset:

movie_booking_basic_sql.xlsx

Tables: movie_booking, booking, payments, customers, shows, theatres

Key Columns: MovieID, ShowID, CustomerID, PaymentID, BookingDate, TicketPrice

Data Coverage

- Customer information and profiles
- Movie details and metadata
- Booking records and history
- Payment transactions
- Show schedules and theatre data

SQL Operations Performed

01

SELECT Queries

Filtering and sorting movie and booking data for targeted analysis.

02

GROUP BY & HAVING

Aggregation and analysis of grouped data sets.

03

JOIN Operations

INNER, LEFT, and RIGHT joins for combining related tables.

04

DELETE Queries

Cleaning outdated or invalid data from the database.

05

Advanced Retrieval

DISTINCT, LIMIT, and OFFSET for sophisticated data extraction.

Key Insights Discovered

Popular Content

Most popular genres and top-performing movies identified through booking frequency analysis.

Customer Behavior

Customers with multiple bookings analyzed to understand loyalty patterns.

Payment Trends

Payment trends and pending transactions tracked for financial insights.

Pricing Strategy

Ticket price ranges analyzed for better pricing and revenue optimization.



Sample Query: Date Range Filtering

```
SELECT * FROM movie_booking WHERE ReleaseDate BETWEEN '2024-01-01' AND '2024-12-31';
```

This query retrieves all movies released in 2024, enabling year-specific analysis of new releases and their performance.

Sample Query: Customer Analysis

```
SELECT CustomerID, COUNT(*) FROM movie_booking_booking  
GROUP BY CustomerID HAVING COUNT(*) > 2;
```

Identifies frequent customers with more than two bookings, helping target loyalty programs and understand repeat customer behavior.



Sample Query: Multi-Table JOIN

```
SELECT s.ShowID, m.Title, t.Name FROM movie_booking_shows s INNER JOIN movie_booking m ON s.MovieID = m.MovieID INNER JOIN movie_booking_theatre t ON s.TheatreID = t.TheatreID;
```

Combines show, movie, and theatre data to create comprehensive reports linking movies to their screening locations.



Business Impact



Data Discovery

Uncover hidden patterns in booking behavior



Strategic Insights

Generate actionable business intelligence



Performance Growth

Optimize operations and revenue



Conclusion

The Movie Booking SQL Project demonstrates the power of SQL for data management, reporting, and insights generation.

Database Mastery

Effective use of SQL queries for complex data operations and analysis.

Pattern Recognition

Deep analysis of booking patterns and customer behavior trends.

Business Intelligence

Valuable insights for improving business performance and decision-making.