Movie Slot Booking System

A comprehensive SQL project demonstrating database management for movie bookings, customer data, and payment processing

Project Overview

SQL-Based System

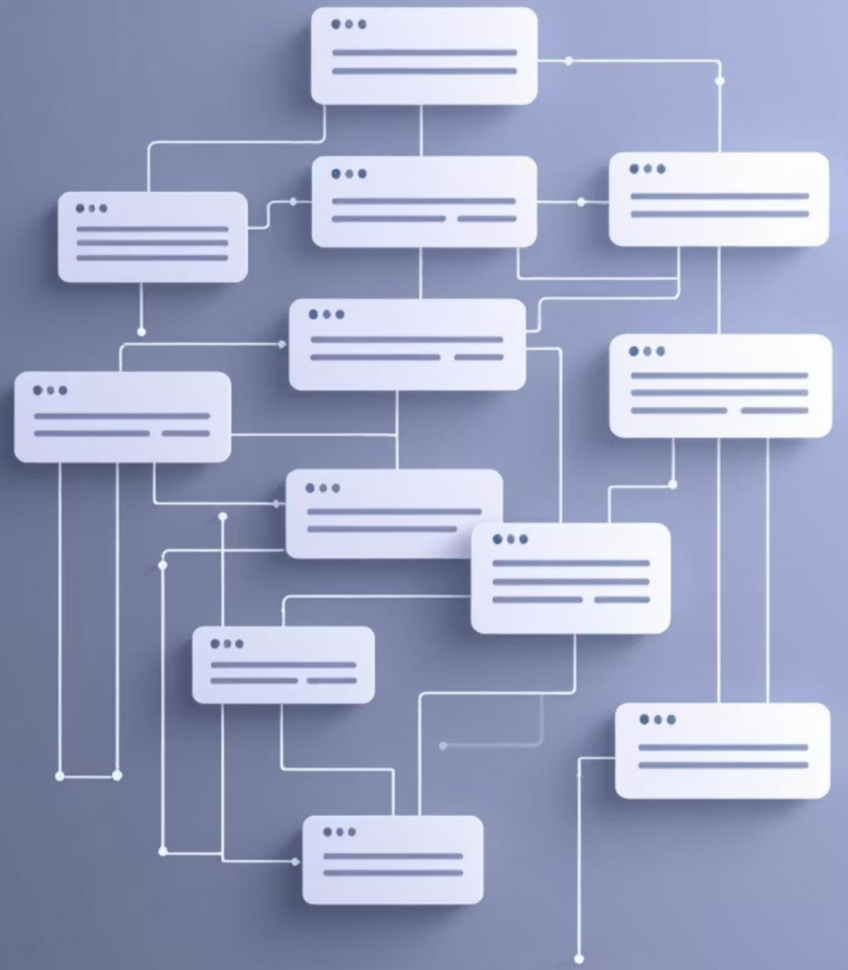
Manages movie bookings, customer data, payments, and show details through relational database operations

Learning Focus

Demonstrates SQL querying, filtering, aggregation, joins, subqueries, and data manipulation

Professional Showcase

Ideal for learners and professionals showcasing SQL skills including CRUD operations and advanced filtering



Database Architecture

The movie_slot database consists of six interconnected tables managing the complete booking ecosystem

movie_booking

Movie details including title, genre, and release date

movie_booking_customers

Customer information with name, city, and contact details

movie_booking_shows

Show details with dates, ticket prices, and theatre links

Additional Database Tables

movie_booking_theatre

Theatre information and locations where movies are shown

movie_booking_booking

Customer booking records with seats booked and booking dates

movie_booking_payments

Payment details including amount, status, and payment dates

Core SQL Skills Demonstrated

1

CRUD Operations

Complete Create, Read, Update, and Delete functionality across all tables

2

Advanced Joins

INNER, LEFT, and RIGHT joins connecting multiple tables for comprehensive data retrieval

3

Complex Queries

Subqueries, grouping, aggregation with SUM(), COUNT(), and HAVING clauses

4

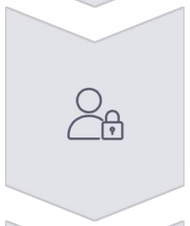
Data Filtering

Sorting and filtering using ORDER BY, BETWEEN, and LIKE operators

Real-World Use Cases

Movie Retrieval

Retrieve all movies released in 2024 with genre filtering



Customer Analysis

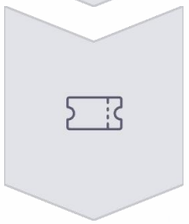
Find customers who booked more than two shows for loyalty programs

Payment Tracking

List all pending payments and generate financial reports

Booking Analytics

Display total seats booked per show and revenue analysis



Price Filtering

Show movies with ticket prices between 200 and 400 for promotions

Key Features & Capabilities

Normalized Database

Data relationships structured for optimal performance and integrity

Complex Aggregations

Advanced grouping and analytical queries for business insights

Multi-Table Operations

Seamless joins across six tables for comprehensive reporting

Future Enhancements

01

Stored Procedures

Automated report generation for daily operations and analytics

02

Analytical Views

Create views for complex analytical queries and business intelligence

03

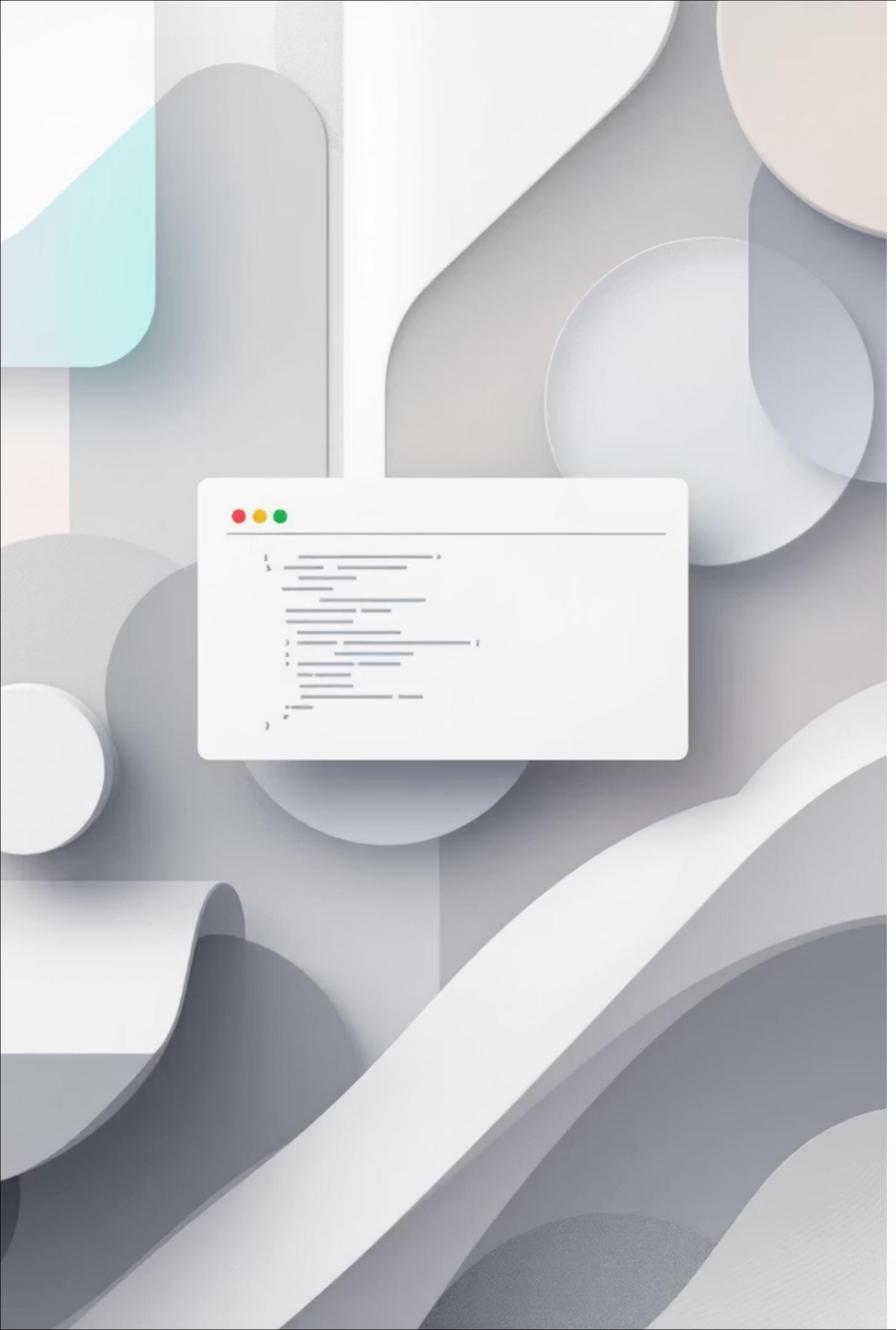
Frontend Integration

Connect with React and Node.js for interactive visualization and user interface

04

Real-Time Triggers

Implement triggers for automated payment updates and notifications



Project Repository

GitHub Repository

Complete source code including SQL scripts and database schema

- SQL PROJECT.sql - Main query file
- movie_booking_basic_sql.xlsx - Sample data
- Comprehensive README documentation

Repository Stats

Active development with regular updates

- 8 commits to main branch
- Last updated: October 22, 2025
- Open source and available for learning

About the Author

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SQL developer passionate about database design and management. This project showcases practical SQL skills for real-world applications in the entertainment and booking industry.