

# CAB BOOKING SYSTEM (SQL PROJECT)



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THE CAB BOOKING SYSTEM IS A DATABASE-DRIVEN PROJECT DESIGNED TO MANAGE CAB BOOKINGS, DRIVERS, CUSTOMERS, PAYMENTS, AND TRIP RECORDS. IT FOCUSES ON EFFICIENT DATA STORAGE, RELATIONAL DESIGN, AND SQL-BASED OPERATIONS SUCH AS QUERYING, FILTERING, AND REPORTING.

## Features

**Customer Management:** Store and manage customer information.

**Driver Management:** Maintain driver profiles, license details, and cab assignments.

**Cab Details:** Track cab types, numbers, availability, and status.

**Booking System:** Create and manage bookings with pickup/drop locations and time.

**Trip Management:** Logs trip start/end time, distance traveled, and total fare.

**Payment Handling:** Manage payment status, mode, and transaction records.

## Reports & Queries:

Total rides per customer

Earnings per driver

Daily/Monthly revenue

Cabin availability status

## Database Structure Tables Included

customers

drivers

cabs

bookings

trips

payments

### Key Relationships

One customer → Many bookings

One driver → Many trips

One cab → Many trips

One booking → One trip & One payment

## SQL Operations Demonstrated

CREATE, INSERT, UPDATE, DELETE queries

INNER JOIN, LEFT JOIN, AGGREGATE functions

TRIGGERS & STORED PROCEDURES (optional)

VIEWS for generating reports

FOREIGN KEY constraints & indexing for optimization

## 💡 How to Use

Import the .sql file into your SQL server.  
Run table creation scripts.  
Insert sample data.  
Use provided queries to test the system.

## 📈 Possible Extensions

Admin dashboard  
Real-time cab tracking  
Rating & reviews system  
Automated fare calculation procedures  
Authentication system for customers & drivers

