

Online Car Rental System ER Diagram

Time needed: 5 minutes.

Here's the simple database design for Online Car Rental Management system with ER Diagram that includes Tables, PPT, PDF, etc.

- **Car Rental Management**

Car Rental Management is the main feature of this system wherein ER diagram contains the basic details of the system. Its information was composed of the transactions done by the customers, the buses available for rental.

- **Customer Management**

This feature plays a big role for the system because this gathers the important information of the customers. This information were used to track their transactions and other important matters regarding with the system.

- **Manage Buses Information**

The Bus information management was important for the system because it serves as the basis of the customers as they avails the rental offered by the system. These information was monitored to keep the customers updated.

- **Transaction and Rental Management**

Its feature will store the rentals made by the customers as well as the date of the transaction. This will also save and update the accommodation based on the date requested by the customers.

Online Car Rental Management System Entity Relationship Diagram Tables

These tables below provide the complete database tables details such as **Field Name, Descriptions, data types, character lengths.**

Table Name: Customer

Field	Description	Type	Length
stud_ID (PK)	Customer ID	Int	11
fname	Customer First Name	Varchar	255
lname	Customer Last Name	Varchar	255

gender	Customer Gender	Int	11
age	Customer Age	Int	11
contact_add	Contact Address	Int	11
cust_email	Customer Email	Varchar	255
cust_pass	Customer Password	Varchar	255

Table Name: Admin

Field	Description	Type	Length
admin_ID (PK)	Admin ID	Int	11
fname	Admin First Name	Varchar	255
lname	Admin Last Name	Varchar	255
gender	Admin Gender	Int	11
age	Admin Age	Int	11
contact_add	Contact Address	Int	11
admin_email	Admin Email	Varchar	255
admin_pass	Admin Password	Varchar	255

Table Name: Cars

Field	Description	Type	Length
car_ID (PK)	Car ID	Int	11
car_number	Car Number	Int	11
car_model	Car Model	Varchar	30
car_status	Car Status	Varchar	30
rent_prize	Prize Rent	Varchar	30
driver_ID (FK)	Driver ID	Int	11

Table Name: Rentals

Field	Description	Type	Length
rental_ID (PK)	Rental ID	Int	11

rental_num	Rental Number	Int	11
date_rent	Rental Date	Date	
time_depart	Destination	Time	
time_arrive	Time of Arrival	Time	
destination	Date of Accommodation	Varchar	30
date_return	Returning Date	Date	
payment	Payment	Varchar	30

Table Name: Transaction

Field	Description	Type	Length
trans_ID (PK)	Transaction ID	Int	11
trans_name	Transaction Name	Varchar	30
rental_ID (FK)	Rental ID	Int	11
car_ID (FK)	Car ID	Int	11
cust_ID (FK)	Customer ID	Int	11
admin_ID (FK)	Admin ID	Int	11
trans_date	Date of Transaction	Date	

Table Name: Driver

Field	Description	Type	Length
driver_ID (PK)	Driver Type ID	Int	11
trans_name	Transaction Type	Varchar	30
commission	Commission	Varchar	30

Table Name: Reports

Field	Description	Type	Length
report_ID (PK)	Report ID	Int	11
trans_ID (FK)	Transaction ID	Int	11
rental_ID (FK)	Rental ID	Int	11

report_date Report Date Date

Entity Relationship Diagram for Online Car Rental System

ER Diagram of Car Rental System shows the system entity relationships in each entity and their supposed functions in each relationship.

