

# Database Design, Logical ERD – DRIVESHARE

The model has been updated with the below mentioned additions :

## Entity Additions :

A location entity for identifying rides and a rate card entity for estimating trip costs. Meanwhile, certain entities have been removed to streamline functionality and improved relationships.

1. Addition of "**Location**" entity:

**Ride Requests:** It is important for riders to accurately specify their pickup and drop-off locations.

**Route Planning:** Drivers require effective tools to identify the most efficient routes based on real-time traffic and location data.

2. The "**Rate Card**" entity for:

**Pricing:** Establishing a reliable system for calculating fares based on distance, time, and other factors, such as surge pricing, is necessary.

**Transparency:** Riders should have access to clear and upfront information regarding the anticipated costs of their trips.

## Relationships updated :

- **Renter and Renter\_Car:** A renter can rent many cars, so one Renter has many entries in Renter\_Car. This is represented by a line connecting Renter to Renter\_Car.
- **Car and Renter\_Car:** A car can be rented by many renters, so one Car can have many entries in Renter\_Car.

## Entities Removed :

The audit entity has been removed from the conceptual model. The model update now focuses on the addition of a location entity for identifying rides and a rate card entity for estimating trip costs, while certain entities have been removed to streamline functionality.

## Logical ERD:

