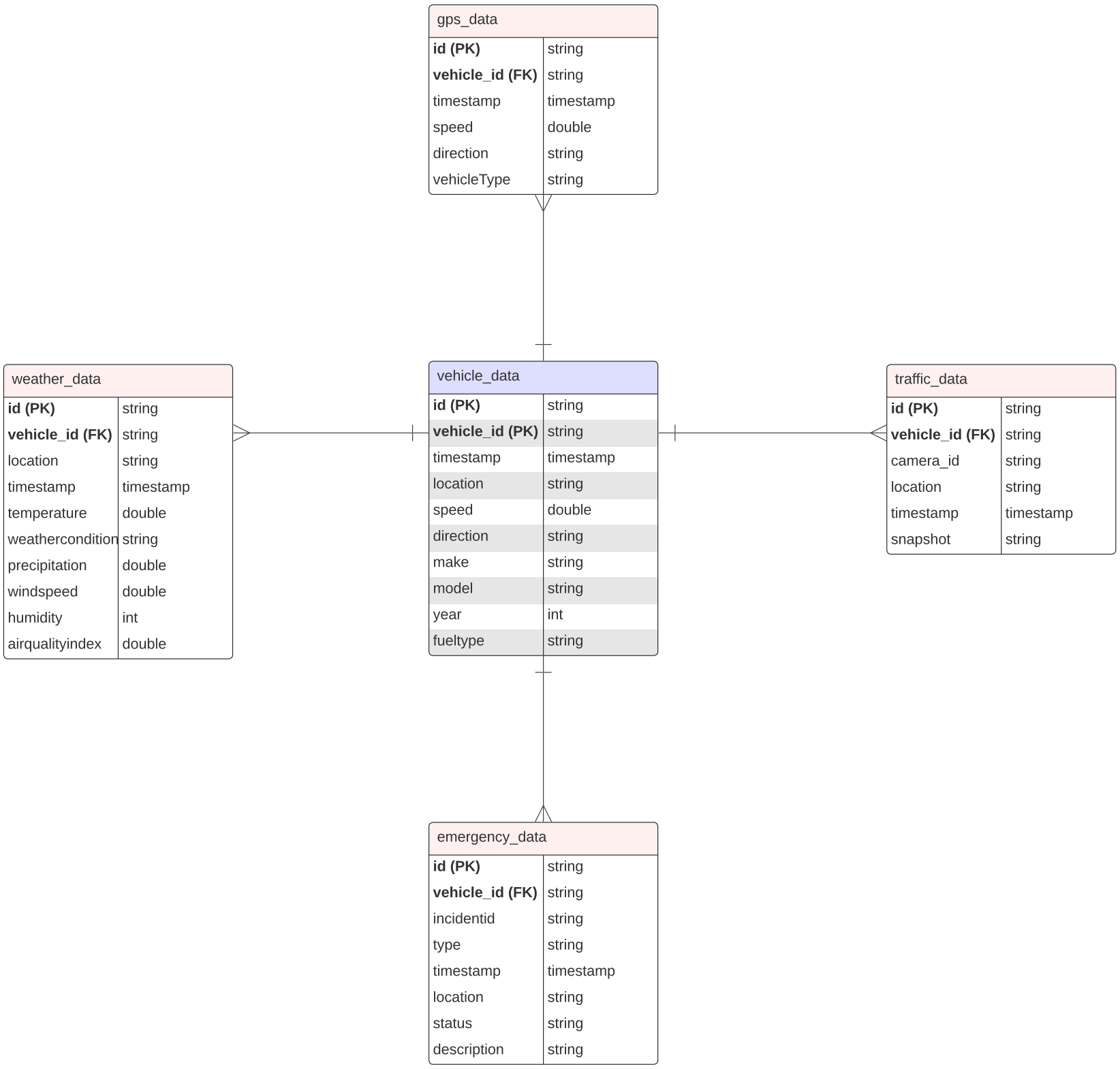

Description of the Diagram

The ERD (Entity-Relationship Diagram) represents the relationships between different types of data collected from vehicles in a smart city context. The vehicle_data table serves as the central entity, connecting to various other tables that store specific types of data related to the vehicle's operation and environment.

- **Central Entity (vehicle_data)**: This table is at the core of the ERD, containing primary information about each vehicle.
- **Relationships**:
  - **One-to-Many Relationships**: The vehicle_data table is connected to emergency_data, gps_data, traffic_data, and weather_data tables through a one-to-many relationship. This indicates that one vehicle can have multiple records in each of these tables.
  - **Foreign Keys**: The vehicle_id attribute in each of the related tables (emergency_data, gps_data, traffic_data, and weather_data) acts as a foreign key referencing the id attribute in the vehicle_data table.

Overall Functionality

This ERD effectively organizes data related to vehicles, emergencies, GPS tracking, traffic conditions, and weather into structured tables with defined relationships. The design facilitates efficient querying and analysis of data, enabling insights into vehicle operations, emergency response, traffic monitoring, and environmental impacts.