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EasyCar Rent – Refined Data Model

Conventions

- Tables and columns use snake_case, in singular.
- Primary keys are UUID generated with gen_random_uuid() (CREATE EXTENSION pgcrypto;).
- 🛱 Audit fields (7):
 - o status
 - created_at / created_by
 - updated_at / updated_by
 - deleted_at / deleted_by
- Foreign Keys use **ON UPDATE CASCADE** and **ON DELETE** rules appropriate to the domain.
- D Unique constraints on codes and names (scoped where applicable).

▲ Module: Customer Management

customer {id, first_name, last_name, document_number, phone, email, address} **driving_license** {id, license_number, category, expiry_date, customer_id} customer_history {id, notes, customer_id}

vehicle {id, brand, model, plate, vehicle_category_id, vehicle_status_id} vehicle_category {id, code, name, description} vehicle_status {id, code, name, description}

Module: Reservation Management

reservation (id, start_date, end_date, customer_id, vehicle_id, reservation_status_id, branch_id, reservation_type_id} **reservation_status** {id, code, name, description}

branch {id, code, name, location}

reservation_type {id, code, name, description}

Relationships

- driving_license.customer_id → customer.id
- customer_history.customer_id → customer.id
- vehicle_vehicle_category_id → vehicle_category.id
- vehicle.vehicle status id → vehicle_status.id
- reservation.customer_id → customer.id
- reservation.vehicle id → vehicle.id
- reservation.reservation_status_id → reservation_status.id

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- reservation.branch_id → branch.id
- reservation.reservation_type_id → reservation_type.id

Referential Actions

- ON UPDATE CASCADE in all foreign keys.
- ON DELETE RESTRICT for critical entities (customer, vehicle, branch).
- ON DELETE SET NULL for optional relationships when applicable.