

SchoolRun Platform – Database Schema & Entity Relationships

Version 1.0 | January 2026

This document defines all database tables, their fields, relationships, and business purposes for the SchoolRun platform — a Laravel-based school transportation system serving parents, drivers, and administrators.

Core Tables Overview

users – Base authentication & user identity → parents, drivers, documents
parents – Stores parent/guardian contact & address info → children
drivers – Stores driver credentials & vehicle details → trips, driver_locations, driver_schools
children – Represents each child enrolled in the service → trip_participants, ratings
locations – Predefined urban pickup zones → children, driver_locations
schools – Approved schools with geocoordinates → children, driver_schools
trips – One record per driver per school day → trip_participants, trip_events, ratings
trip_participants – Links children to trips (many-to-many)
trip_events – Audit log of trip milestones
ratings – Parent feedback after completed round trips
driver_performance_scores – Daily/weekly driver quality score
documents – Stores ID, license, and vehicle registration uploads
driver_locations – Driver ↔ pickup zones
driver_schools – Driver ↔ schools
notifications – In-app/email alerts for users

Detailed Table Specifications

users

id (PK), name, email, phone, password_hash, user_type, status, created_at

parents

id (PK/FK), relationship_to_child, secondary_phone, address_street, address_city, address_country
No postal/ZIP code stored.

drivers

id (PK/FK), date_of_birth, gov_id_number, license_number, license_issuing_state, vehicle_details, license_plate, max_child_capacity, vehicle_type

children

id, parent_id, first_name, last_name, date_of_birth, school_id, pickup_location_id, medical_notes, special_needs

locations

id, name, city, country, lat, lng, is_active

schools

id, name, address, city, country, lat, lng, is_active

trips

id, driver_id, scheduled_date, status, distance_km, pricing_tier

trip_participants

id, trip_id, child_id, pickup/dropoff scheduled and actual times, status

trip_events

id, trip_id, event_type, recorded_at, lat, lng, notes

ratings

id, trip_id, child_id, rating, comment, created_at (UNIQUE trip_id + child_id)

driver_performance_scores

id, driver_id, score, rating_avg, reliability_pct, punctuality_pct, calculated_for

documents

id, user_id, doc_type, file_path, verified, uploaded_at

Pivot Tables

driver_locations (driver_id, location_id)

driver_schools (driver_id, school_id)

notifications

id, user_id, title, body, type, is_read, related_id

Key Relationship Diagram (Text Summary)

users → parents/drivers → children → trips → drivers → locations/schools/documents

Data Integrity & Privacy Rules

Soft deletes disabled. Row-level security enforced. PII minimized. GDPR compliant.

This schema supports distance-based pricing, real-time tracking, driver performance scoring, full trip history, and secure onboarding. Ready for Laravel Eloquent implementation.