

# SchoolRun Platform – Database Schema & Entity Relationships

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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.