EcoTech Database – Strict 1NF Version

> **Note:** This document presents the EcoTech database in strict First Normal Form (1NF). All fields are atomic—no arrays, lists, or JSONB fields. Any multi-valued attributes have been decomposed into separate tables, each with a foreign key back to the original table.

profiles

id (PK)	name	email (unique)	role	phone	created_at	status	vehicle_type	license_number	coverage_area	availability	preferred_schedule	additi

accepted_materials

id (PK)	profile_id (FK to profiles.id)	material

collection_requests

id (PK)	user_id (FK)	collector_id (FK)	recycling_center_id (FK)	status	scheduled_date	scheduled_time	pickup_address	item_description	item_weight	item_quantity	special_instructions	created_at	updated_at	assigned_at	completed_at	cancelled_at	cancellation_reason	payment_status	payment_method	payment_amount	payment_reference	feedback_id (FK)	rating	review	is_paid	is_deleted	deleted_at	auto_id	parent_id	parent_type	request_type	request_source	request_priority	request_deadline	request_notes	request_tags	request_category	request_subcategory	request_attachments	request_photos	request_documents	request_signature	request_latitude	request_longitude	request_location	request_distance	request_duration	request_eta	request_status	request_progress	request_quality	request_assessment	request_verification	request_approval	request_rejection	request_escalation	request_resolution	request_followup	request_history	request_audit	request_log

item_types

id (PK)	collection_request_id (FK to collection_requests.id)	item_type

item_photos

id (PK)	collection_request_id (FK to collection_requests.id)	photo_url

tags

id (PK)	collection_request_id (FK to collection_requests.id)	tag

deliveries

id (PK)	collection_request_id (FK)	collector_id (FK)	recycling_center_id (FK)	status	pickup_time	delivery_time	delivery_address	delivery_notes	delivery_phot

delivery_photos

id (PK)	delivery_id (FK to deliveries.id)	photo_url

achievements

id (PK)	name	description	criteria	reward	created_at	updated_at	is_active	auto_id

achievement_criteria

id (PK)	achievement_id (FK to achievements.id)	criterion

user_achievements

id (PK)	user_id (FK to profiles.id)	achievement_id (FK to achievements.id)	date_earned

feedback

id (PK)	user_id (FK)	feedback_text	rating	created_at	updated_at	is_resolved	resolved_at	auto_id	parent_id	parent_type

support_tickets

id (PK)	user_id (FK)	subject	description	status	created_at	updated_at	resolved_at	auto_id	parent_id	parent_type

pricing_categories

id (PK)	name	description	base_price	unit	created_at	updated_at	is_active	auto_id

collector_earnings

id (PK)	collector_id (FK)	amount	date_earned	payment_status	payment_reference	created_at	updated_at	auto_id

payment_transactions

id (PK)	user_id (FK)	amount	payment_method	payment_status	payment_reference	created_at	updated_at	auto_id

notifications

id (PK)	user_id (FK)	message	type	read	created_at	updated_at	auto_id	parent_id	parent_type

sustainability_fund

id (PK)	amount	source	date_received	created_at	updated_at	auto_id

platform_revenue

id (PK)	amount	source	date_received	created_at	updated_at

content_categories

id (PK)	name	description	created_at	updated_at	is_active	auto_id

educational_content

id (PK)	category_id (FK to content_categories.id)	title	content	author_id (FK to profiles.id)	created_at	updated_at	is_active	auto_id