

Olist E-commerce Database Schema Documentation

Link to diagram: <https://app.quickdatabasediagrams.com/#/d/Gpy31k>

Olist E-commerce Database Schema Overview

This schema represents the data structure for Olist, an e-commerce marketplace in Brazil. It captures key entities and their relationships including customers, sellers, orders, payments, reviews, products, and geographical locations.

The design emphasizes referential integrity, data uniqueness, and traceability for analytics.

Primary keys (PK), foreign keys (FK), unique constraints, and NULL allowances are defined explicitly.

olist_orders

Table: olist_orders

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Field	Description	Type	Default	Other
order_id		varchar(50)		PK
customer_id		varchar(50)		FK
order_status		varchar(20)		
order_purchase_timestamp		timestamp		
order_approved_at		timestamp		NULLABLE
order_delivered_carrier_date		timestamp		NULLABLE
order_delivered_customer_date		timestamp		NULLABLE
order_estimated_delivery_date		timestamp		

olist_customers

Table: olist_customers

Field	Description	Type	Default	Other
customer_id		varchar(50)		PK
customer_unique_id		varchar(50)		
customer_zip_code_prefix		int		FK
customer_city		varchar(100)		
customer_state		varchar(2)		

olist_geolocation

Table: olist_geolocation

Field	Description	Type	Default	Other
geolocation_zip_code_prefix		int		FK
geolocation_lat		float		
geolocation_lng		float		
geolocation_city		varchar(100)		
geolocation_state		varchar(2)		

olist_order_items

Note: no primary key; used for zip-location mapping

Table: olist_order_items

Field	Description	Type	Default	Other
order_id		varchar(50)		FK
order_item_id		int		
product_id		varchar(50)		FK
seller_id		varchar(50)		FK
shipping_limit_date		timestamp		
price		float		
freight_value		float		

olist_order_payments

Composite Primary Key: (order_id, order_item_id)

Table: olist_order_payments

Field	Description	Type	Default	Other
order_id		varchar(50)		FK
payment_sequential		int		
payment_type		varchar(20)		
payment_installments		int		
payment_value		float		

olist_order_reviews

Composite Primary Key: (order_id, payment_sequential)

Table: olist_order_reviews

Field	Description	Type	Default	Other
review_id		varchar(50)		PK
order_id		varchar(50)		FK
review_score		int		NULLABLE
review_comment_title		varchar(255)		NULLABLE
review_comment_message		text		NULLABLE
review_creation_date		timestamp		
review_answer_timestamp		timestamp		

olist_products

Table: olist_products

Field	Description	Type	Default	Other
product_id		varchar(50)		PK
product_category_name		varchar(100)		FK
product_name_length		int		

Field	Description	Type	Default	Other
product_description_length		int		
product_photos_qty		int		
product_weight_g		int		
product_length_cm		int		
product_height_cm		int		
product_width_cm		int		

olist_sellers

Table: olist_sellers

Field	Description	Type	Default	Other
seller_id		varchar(50)		PK
seller_zip_code_prefix		int		FK
seller_city		varchar(100)		
seller_state		varchar(2)		

product_category_name_translation

Table: product_category_name_translation

Field	Description	Type	Default	Other
product_category_name		varchar(100)		PK
product_category_name_englis		varchar(100)		