

Rihla Car Services Complete ERD to Table Mapping

Customers

Attribute	Data Type	Key	Description
customer_id	INT	PK	Unique identifier for each customer
name	VARCHAR		Customer full name
email	VARCHAR	UNIQUE	Customer email address
phone_num	VARCHAR		Customer phone number
gender	VARCHAR		Customer gender
age	INT		Customer age
country	VARCHAR		Customer country
signup_date	DATE		Date the customer registered
device	VARCHAR		Device used to access the platform
loyalty_tier	VARCHAR		Customer loyalty level

Drivers

Attribute	Data Type	Key	Description
driver_id	INT	PK	Unique identifier for each driver
name	VARCHAR		Driver full name
email	VARCHAR	UNIQUE	Driver email address
phone_num	VARCHAR		Driver phone number
gender	VARCHAR		Driver gender
age	INT		Driver age
years_of_experience	INT		Total driving experience
join_date	DATE		Date driver joined Rihla
status	VARCHAR		Driver availability status
avg_rating	FLOAT		Average rating received

Vehicles

Attribute	Data Type	Key	Description
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vehicle_id	INT	PK	Unique identifier for each vehicle
driver_id	INT	FK	Driver who owns the vehicle
model	VARCHAR		Vehicle model
year	INT		Manufacturing year
color	VARCHAR		Vehicle color
fuel_type	VARCHAR		Fuel type
capacity	INT		Passenger or cargo capacity
license_country	VARCHAR		Vehicle registration country

Trips

Attribute	Data Type	Key	Description
trip_id	INT	PK	Unique identifier for each trip
customer_id	INT	FK	Customer who booked the trip
driver_id	INT	FK	Assigned driver
vehicle_id	INT	FK	Assigned vehicle
pickup_lat	FLOAT		Pickup latitude
pickup_long	FLOAT		Pickup longitude
dropoff_lat	FLOAT		Drop-off latitude
dropoff_long	FLOAT		Drop-off longitude
distance	FLOAT		Distance traveled
duration	FLOAT		Trip duration
start_time	DATETIME		Trip start time
end_time	DATETIME		Trip end time
expected_time	FLOAT		Estimated trip time
base_fare	FLOAT		Base fare for trip

Payments_For_Trips

Attribute	Data Type	Key	Description
payment_id	INT	PK	Unique payment record
trip_id	INT	FK	Related trip
base_fare	FLOAT		Base trip fare
distance_fee	FLOAT		Distance-based fee
weight_fee	FLOAT		Weight-based fee (freight)
fuel_cost	FLOAT		Fuel cost

taxes	FLOAT		Applied taxes
tips	FLOAT		Customer tips
driver_earning	FLOAT		Driver earnings
org_earning	FLOAT		Company earnings
payment_method	VARCHAR		Payment method

Rent_Vehicle

Attribute	Data Type	Key	Description
rent_id	INT	PK	Unique rental identifier
customer_id	INT	FK	Customer renting the vehicle
vehicle_id	INT	FK	Rented vehicle
start_date	DATE		Rental start date
end_date	DATE		Rental end date
days_rented	INT		Number of rental days
status	VARCHAR		Rental status
distance_km	FLOAT		Distance driven
insurance_plan	VARCHAR		Insurance plan selected

Payment_For_Rent

Attribute	Data Type	Key	Description
payment_id	INT	PK	Unique rental payment record
rent_id	INT	FK	Associated rental
base_price	FLOAT		Base rental price
fuel_cost	FLOAT		Fuel cost
maintenance_cost	FLOAT		Maintenance cost
taxes	FLOAT		Taxes applied
tips	FLOAT		Optional tips
driver_cut	FLOAT		Driver share
org_cut	FLOAT		Company share
total_profit	FLOAT		Final profit
payment_method	VARCHAR		Payment method

Freight

Attribute	Data Type	Key	Description
freight_id	INT	PK	Unique freight identifier
driver_id	INT	FK	Assigned driver
vehicle_id	INT	FK	Assigned vehicle
volume	FLOAT		Cargo volume
weight	FLOAT		Cargo weight
fragile	BOOLEAN		Fragile indicator
distance	FLOAT		Delivery distance
pickup_location	VARCHAR		Pickup location
dropoff_location	VARCHAR		Drop-off location
status	VARCHAR		Freight status
created_at	DATETIME		Order creation time
delivered_at	DATETIME		Delivery completion time

Insurance

Attribute	Data Type	Key	Description
insurance_id	INT	PK	Unique insurance identifier
vehicle_id	INT	FK	Covered vehicle
freight_id	INT	FK	Covered freight
provider_name	VARCHAR		Insurance provider
policy_num	VARCHAR	UNIQUE	Policy number
coverage_type	VARCHAR		Coverage type
expiry_date	DATE		Policy expiry date

Maintenance

Attribute	Data Type	Key	Description
maintenance_id	INT	PK	Maintenance record identifier
vehicle_id	INT	FK	Vehicle serviced
workshop_name	VARCHAR		Service workshop
description	VARCHAR		Maintenance description
maintenance_type	VARCHAR		Type of maintenance
cost	FLOAT		Service cost
service_date	DATE		Service date

days_out_of_work	INT		Vehicle downtime
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Ratings

Attribute	Data Type	Key	Description
rating_id	INT	PK	Rating identifier
trip_id	INT	FK	Related trip
customer_id	INT	FK	Customer giving rating
driver_id	INT	FK	Driver being rated
score	INT		Rating score
comments	VARCHAR		Customer comments
date	DATE		Rating date

Complaints

Attribute	Data Type	Key	Description
complaint_id	INT	PK	Complaint identifier
trip_id	INT	FK	Related trip
customer_id	INT	FK	Customer submitting complaint
complaint_text	VARCHAR		Complaint details
status	VARCHAR		Complaint status
resolution_date	DATE		Date of resolution

Documents

Attribute	Data Type	Key	Description
document_id	INT	PK	Document identifier
driver_id	INT	FK	Related driver
document_type	VARCHAR		Type of document
document_number	VARCHAR	UNIQUE	Official document number
file_url	VARCHAR		Stored file location
status	VARCHAR		Verification status
created_at	DATE		Upload date
reviewed_at	DATE		Review date
expires_at	DATE		Expiration date

