

Pedal Works Bicycle Shops

Database schema **bikeShop** · mariadb · 9 tables · 4,664 rows

About the business

Pedal Works runs a small chain of neighbourhood bicycle shops. Each store sells new and refurbished bikes and runs a service counter where customers drop bikes off for repair. Technicians log the services they perform and the parts they consume on every job. Repairs are modelled as an order header plus line items so a single visit can cover several services, and parts are attached to the line item rather than the order so the cost of a job breaks down cleanly.

What each table holds

stores (12 rows)

One row per physical shop location.

customers (260 rows)

Everyone who has bought or serviced a bike here.

employees (260 rows)

Sales staff and service technicians.

bikes (260 rows)

Individual bicycles, each owned by one customer.

services (12 rows)

The catalogue of services the shop offers.

parts (260 rows)

Inventory of parts consumed during repairs.

repairOrders (1,200 rows)

One row per bike brought in for service.

repairItems (1,200 rows)

The individual services performed on a repair order.

partUsages (1,200 rows)

Which parts were consumed on which repair item.

How the tables relate

The core entities are customers, employees, bikes, and parts. Day-to-day activity is recorded in repairOrders, repairItems, and partUsages. Stores and services hold the reference values the rest of

the schema draws on.

- Each employees row belongs to one stores, through employees.storeId → stores.storeId.
- Each bikes row belongs to one customers, through bikes.customerId → customers.customerId.
- Each repairOrders row belongs to one bikes, through repairOrders.bikeId → bikes.bikeId.
- Each repairOrders row belongs to one employees, through repairOrders.employeeId → employees.employeeId.
- Each repairOrders row belongs to one stores, through repairOrders.storeId → stores.storeId.
- Each repairItems row belongs to one repairOrders, through repairItems.repairOrderId → repairOrders.repairOrderId.
- Each repairItems row belongs to one services, through repairItems.serviceId → services.serviceId.
- partUsages resolves a many-to-many relationship: each row pairs one repairItems with one other party via partUsages.repairItemId.
- partUsages resolves a many-to-many relationship: each row pairs one parts with one other party via partUsages.partId.

Data dictionary

Table	Column	Type	Meaning	Example
stores	storeId	INT	Unique identifier for each stores row.	1
stores	storeName	VARCHAR(120)		Lakebound Holdings
stores	city	VARCHAR(60)		Green Bay
stores	state	VARCHAR(2)		MI
stores	openedDate	DATE		2017-11-22
customers	customerId	INT	Unique identifier for each customers row.	1
customers	firstName	VARCHAR(50)		Priya
customers	lastName	VARCHAR(50)		Silva
customers	email	VARCHAR(120)		priya.silva1@example.com
customers	phone	VARCHAR(20)		(273) 823-2565
customers	city	VARCHAR(60)		Traverse City
customers	joinDate	DATE		2024-07-10
employees	employeeId	INT	Unique identifier for each employees row.	1
employees	firstName	VARCHAR(50)		Gustav
employees	lastName	VARCHAR(50)		Bhatt
employees	storeId	INT	Links this row to stores.storeId.	8
employees	role	VARCHAR(60)	One of: Technician, Sales Associate, Service Manager, Store Manager.	Sales Associate
employees	hireDate	DATE		2025-03-13
employees	hourlyRate	DECIMAL(12,2)		32.27
bikes	bikeId	INT	Unique identifier for each bikes row.	1
bikes	customerId	INT	Links this row to customers.customerId.	94
bikes	brand	VARCHAR(60)	One of: Trek, Specialized, Giant, Cannondale,	Giant
bikes	model	VARCHAR(30)		RX-8455
bikes	bikeType	VARCHAR(60)	One of: Road, Mountain, Hybrid, Gravel,	Mountain
bikes	purchaseYear	INT		2016
bikes	purchasePrice	DECIMAL(12,2)		498.53
services	serviceId	INT	Unique identifier for each services row.	1
services	serviceName	VARCHAR(60)	One of: Wheel True, Wheel Rebuild, Brake Bleed, Brake Pad Replacement,	Drivetrain Clean
services	standardHours	DECIMAL(12,2)		5.85
services	flatRate	DECIMAL(12,2)		50.33
parts	partId	INT	Unique identifier for each parts row.	1

Table	Column	Type	Meaning	Example
parts	partName	VARCHAR(120)		Backordered unit
parts	partNumber	VARCHAR(30)		EZC-28234
parts	category	VARCHAR(60)	One of: Drivetrain, Braking, Wheels, Tyres,	Tyres
parts	unitCost	DECIMAL(12,2)		8.37
parts	onHandQuantity	INT		3
repairOrders	repairOrderId	INT	Unique identifier for each repairOrders row.	1
repairOrders	bikeId	INT	Links this row to bikes.bikeId.	1
repairOrders	employeeId	INT	Links this row to employees.employeeId.	70
repairOrders	storeId	INT	Links this row to stores.storeId.	2
repairOrders	dropOffDate	DATE		2025-03-05
repairOrders	status	VARCHAR(60)	One of: Completed, In Progress, Waiting On Parts, Ready For Pickup,	Completed
repairOrders	laborHours	DECIMAL(12,2)		1.09
repairItems	repairItemId	INT	Unique identifier for each repairItems row.	1
repairItems	repairOrderId	INT	Links this row to repairOrders.repairOrderId.	1111
repairItems	serviceId	INT	Links this row to services.serviceId.	4
repairItems	quantity	INT		1
repairItems	itemCost	DECIMAL(12,2)		76.8
repairItems	lineTotal	DECIMAL(12,2)	Calculated as quantity * itemCost.	76.8
partUsages	partUsageId	INT	Unique identifier for each partUsages row.	1
partUsages	repairItemId	INT	Links this row to repairItems.repairItemId.	146
partUsages	partId	INT	Links this row to parts.partId.	3
partUsages	quantityUsed	INT		1

Every value in this dataset is synthetic — no real person, company or record is represented. Generated by the Agoge dataset generator 1.0.0 with seed 42; the same brief and seed reproduce this data exactly.