

# Car-Repair Shop Reservation System: JADautorepair

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## Description

JADautorepair database is a normalized database designed for car-repair shop reservation system where the customers can request to repair their cars in the shop.

The system stores the information about the customer, car, service, and item. This information is maintained (add, update, delete) by the administrator. One customer can have multiple cars being serviced.

The employee will create the order for the order transaction. The order references to the customer, car. It also stores the request date. Each order has many lines. Each line is for one service such as oil change, brake repair, water pumps...

Each requested service is served by one employee. Each service has the specific price. The requested service can use many item parts such as door control module, battery tray, air intake manifold... Each item has the specific price too.

We normalized the database design for example by separating the car information from the customers table. If we left the car info in the customer table, then a customer with (n) cars would need (n) records in the customer table for each car. That would mean that there would be a lot of data redundancy in the customer's personal information. By separating the car information from the customers table, it allows each customer to have more than one car, without any unnecessary data redundancy

### Assumption

The system does not keep track the payment such as car number...

The car belongs to one customer. Each customer can have one or many cars.

## Services Page:

To view services:

Click button to view all services and prices

## Customer Page:

To place order:

Enter:

Username

Password

first\_name

last\_name

phone\_number

car\_make

car\_model

car\_year

To view order:

Enter:

Username

Password

## Employee Page:

To place order:

Enter:

Username

Password

customer\_id

service\_id

DBs:

Service

Id, Name, Price

## Customer

Id, Username, Password, first\_name, last\_name, Phonenumber,

## Car

Id, car\_make, car\_model, car\_year, customer\_Id

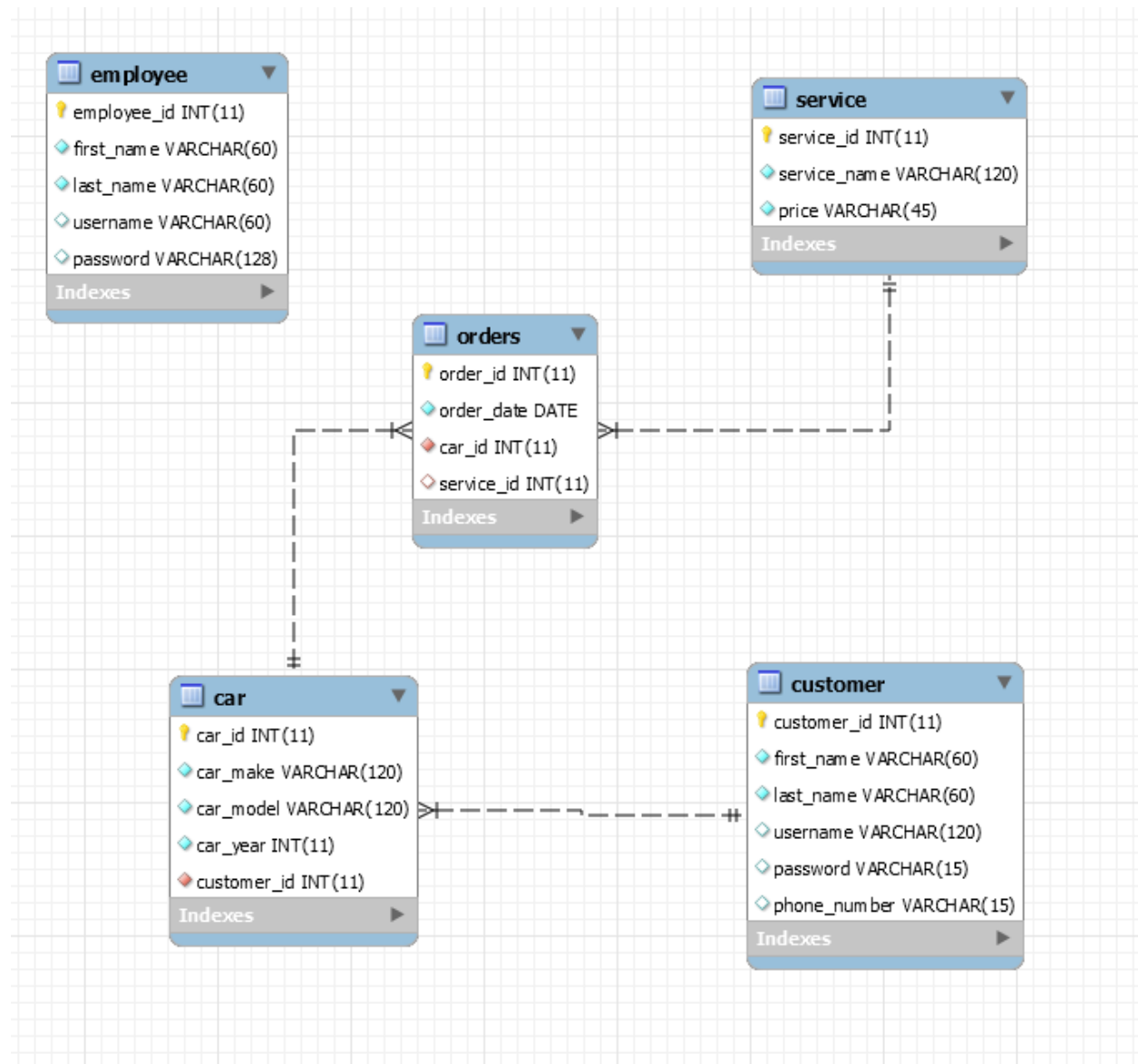
## Employee

Id, first\_name, last\_name, Username, Password

## Orders

Id, Car\_Id, Customer\_Id, Service\_Id

## ERD



## Tables

1 • `SELECT * FROM jadautorepair.car;`

Limit to 2000 rows

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Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell C

	car_id	car_make	car_model	car_year	customer_id
▶	1	Toyota	TO 2001	2001	1
	2	Toyota	YAO 29	2012	1
	3	Toyota	TOA VA3	2019	2
	4	Mercedes Benz	MEA 001	2018	2
	5	Mercedes Benz	MEA 2001	2000	3
	6	Honda	HIN 333	2011	4
	7	Honda	HONV2	2009	5
	8	Honda	TIAV 34	2011	6
	9	General Motors	GM 2009	2008	7
*	NULL	NULL	NULL	NULL	NULL

Limit to 2000 rows

```
1 • SELECT * FROM jadautorepair.customer;
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content

	customer_id	first_name	last_name	username	password	phone_number
▶	1	Jeremy	Lawrence	jeryam	ADFA\$333	123-4567-889
	2	Santiago	Genovese	stangia	ADF#IE	456-4556-566
	3	Michael	Bailey	mchea	DOA34,	111-2345-678
	4	Mose	McBroom	mose233	BAA?#&	543-5678-222
	5	Rex	Woodard	rexwoda	@#A3445	233-4444-122
	6	Yvonne	Nicholson	ahcoanichen	\$AB3Ada	345-2956-445
	7	Lori	Grieco	lorigeara233	d%A5?!	220-2345-555
*	NULL	NULL	NULL	NULL	NULL	NULL

1 •
SELECT \* FROM jadautorepair.employee;

Result Grid
Filter Rows:
Edit:
Export/Import:

	employee_id	first_name	last_name	username	password
▶	1	Karen	Farrell	kan1	123456
	2	Anthony	Mirabal	aut2	454\$@1
	3	Bernice	Infante	brea3	34334A
	4	Crystal	Cramer	cryle	A3455\$#
	5	Lisa	Knarr	la34	G\$>2
	6	Louise	Williamson	lau5443	TGANBA#
	7	George	Reyes	dgao34	@!AB#
	8	Teri	Boswell	teaab34	34BA3.A!
	9	Walter	Hein	wat34	BAD3\$#A)
*	NULL	NULL	NULL	NULL	NULL

Limit to 2000 rows

```
1 • SELECT * FROM jadautorepair.orders;
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Ce

	order_id	order_date	car_id	service_id
▶	1	2018-12-01	1	1
	2	2018-12-01	2	2
	3	2018-12-12	3	3
	4	2018-12-13	4	4
	5	2018-12-14	5	5
	6	2018-12-14	6	6
	7	2018-12-15	7	7
	8	2018-12-15	1	8
*	NULL	NULL	NULL	NULL



Limit to 2000 rows

1

```
SELECT * FROM jadautorepair.service;
```

<

Result Grid

Filter Rows:

Edit:

Ex

	service_id	service_name	price
▶	1	Oil change	36.62
	2	Brake repair	69.99
	3	Transmission repair	32.77
	4	Radiator repair	26.99
	5	Water Pumps	36.99
	6	Timing Belts	34.99
	7	Anti-Lock Brakes (ABS)	95.99
	8	Power Windows & Doors	26.50
	9	Wheel Alignments	31.25
	10	Steering	56.25
	11	Fix Rattles, Squeaks ...	53.29
*	NULL	NULL	NULL