

# Kar-kambas Used Cars ERD

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| Service                |             |                  |
|------------------------|-------------|------------------|
| Primary Key            | service_id  | SERIAL           |
|                        | date        | DATE             |
| Foreign Key (Mechanic) | mechanic_id | INTEGER NOT NULL |
|                        | description | VARCHAR(255)     |
|                        | amount      | NUMERIC(7,2)     |

Each invoice has 0 or many services. Each service has 1 and only 1 invoice

| Customer    |              |              |
|-------------|--------------|--------------|
| Primary Key | customer_id  | SERIAL       |
|             | first_name   | VARCHAR(30)  |
|             | last_name    | VARCHAR(50)  |
|             | address      | VARCHAR(100) |
|             | email        | VARCHAR(50)  |
|             | phone_number | VARCHAR(15)  |

1 customer can have 0 or many invoices. Each invoice has 1 and only one customer

| Invoice                   |                |                  |
|---------------------------|----------------|------------------|
| Primary Key               | invoice_id     | SERIAL           |
|                           | date           | TIMESTAMP        |
| Foreign Key (Car)         | VIN            | VARCHAR(20)      |
|                           | total_amount   | NUMERIC(8,2)     |
| Foreign Key (Part)        | part_id        | INTEGER          |
| Foreign Key (Service)     | service_id     | INTEGER          |
| Foreign Key (Salesperson) | salesperson_id | INTEGER NOT NULL |
| Foreign Key (Mechanic)    | mechanic_id    | INTEGER          |
| Foreign Key (Customer)    | customer_id    | INTEGER NOT NULL |

Each service has 1 and only 1 mechanic, each mechanic has 0 or many services

| Vendor      |              |              |
|-------------|--------------|--------------|
| Primary Key | vendor_id    | SERIAL       |
|             | vendor_name  | VARCHAR(30)  |
|             | phone_number | VARCHAR(15)  |
|             | address      | VARCHAR(100) |

Each car has 1 and only 1 vendor, while each vendor can have 0 or many cars

| Car                  |           |                      |
|----------------------|-----------|----------------------|
| Primary Key          | VIN       | VARCHAR(20) NOT NULL |
| Foreign Key (Vendor) | vendor_id | INTEGER NOT NULL     |
|                      | model     | VARCHAR(50)          |
|                      | year      | VARCHAR(4)           |
|                      | color     | VARCHAR(15)          |
|                      | amount    | NUMERIC(8,2)         |

Each car has 0 or 1 invoices, and each invoice has 0 or 1 cars

Each part has 1 and only 1 vendor, while each vendor can have 0 or many parts

| Part                 |             |                  |
|----------------------|-------------|------------------|
| Primary Key          | part_id     | SERIAL           |
|                      | name        | VARCHAR(50)      |
|                      | description | VARCHAR(255)     |
|                      | amount      | NUMERIC(7,2)     |
| Foreign Key (Vendor) | vendor_id   | INTEGER NOT NULL |
|                      | SKU         | VARCHAR(20)      |

Each part has 0 or 1 invoice. Each invoice has 0 or many parts

Each salesperson can have 0 or many invoices. Each invoice has 1 and only 1 salesperson

| Salesperson |                |             |
|-------------|----------------|-------------|
| Primary Key | salesperson_id | SERIAL      |
|             | first_name     | VARCHAR(30) |
|             | last_name      | VARCHAR(50) |

Each mechanic can have 0 or many invoices. Each invoice has 0 or 1 mechanic

| Mechanic    |             |             |
|-------------|-------------|-------------|
| Primary Key | mechanic_id | SERIAL      |
|             | first_name  | VARCHAR(30) |
|             | last_name   | VARCHAR(50) |