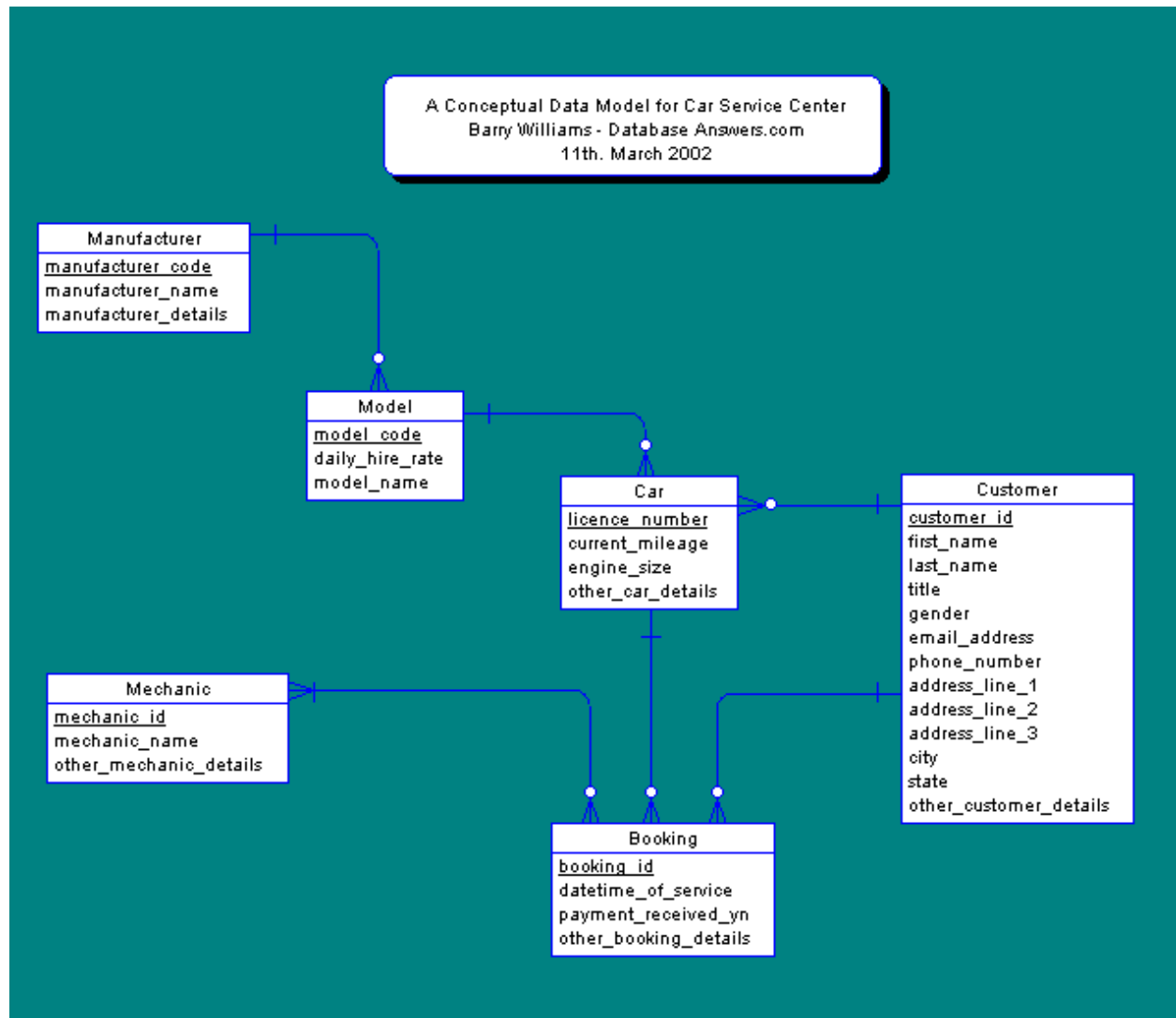


SAMPLE DATA MODEL & ANALYSIS

Data Model:

https://fordnox.github.io/databaseanswers/data_models/car_svc_center/index.htm



This is a Conceptual Data Model for a Car Service Center. This system contains the elements that interact with each other when operating the business. It is designed to manage bookings, hired mechanics, customer records, and car information up for service.

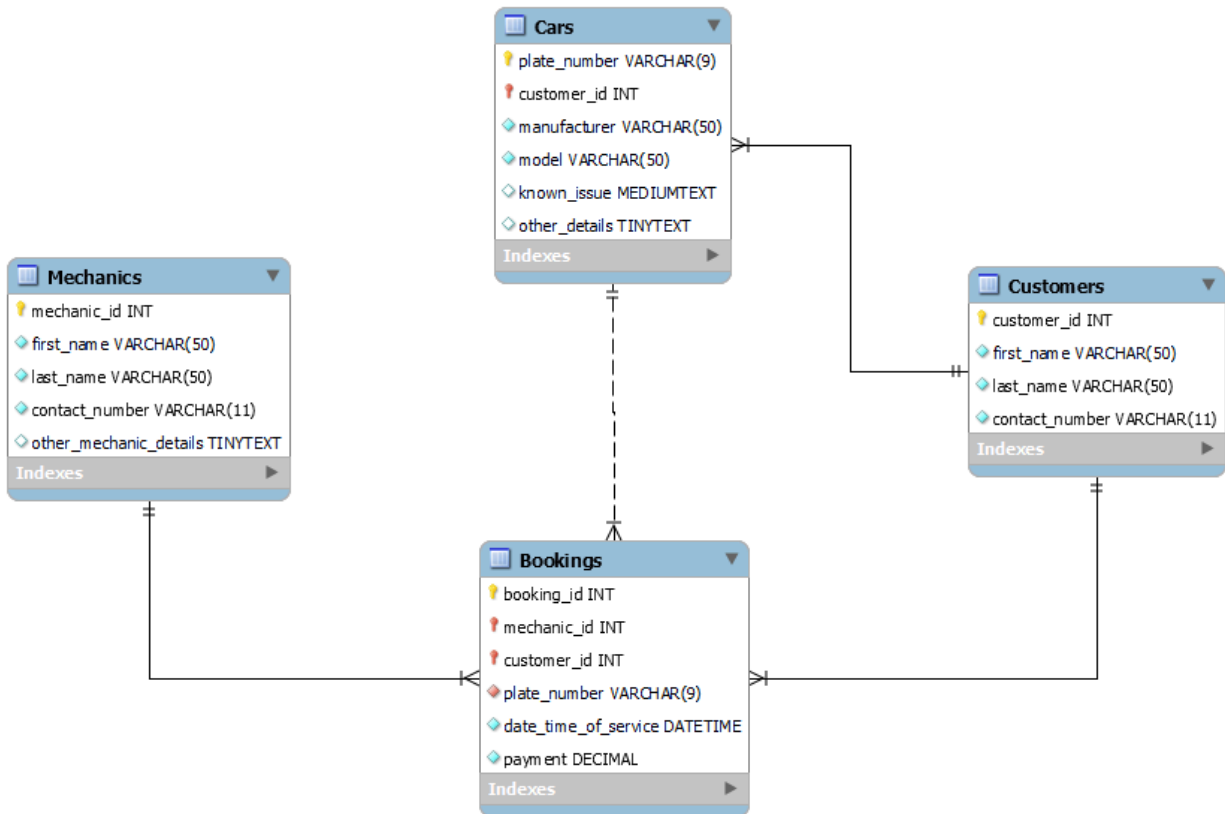
ORIGINAL SCOPE & KEY COMPONENTS

1. Mechanic Management
 - Mechanic details
 - Involved bookings
2. Customer Management
 - Customer details and contact information
 - Involved bookings
 - Owned vehicle
3. Car Management
 - Vehicle manufacturer
 - Vehicle model
 - Vehicle details
4. Booking Management
 - Booking records
 - Payment details
 - Booking details

Original System:

- 6 tables
- Detailed vehicle information system
- Detailed customer profiling
- Lack of mechanic information

MINIMIZED SCOPE



1. Mechanics(Expanded)

- mechanic_id
- first_name
- last_name
- contact_number
- other_mechanic_details

2. Customers(Simplified)

- customer_id
- first_name
- last_name
- contact_number

3. Cars(Simplified)

- plate_number
- customer_id (FK)
- manufacturer
- model
- known_issue
- other_details

4. Bookings

- booking_id
- mechanic_id (FK)
- customer_id (FK)
- plate_number (FK)
- date_time_of_service
- payment

Simplified system:

- 4 core tables
- Direct relationships
- Basic client, mechanic, and car information
- Straightforward data

Example user stories:

1. As a Mechanic:

- “I want to see the time of bookings that I have for today.”
- “I need to know the manufacturer and model of the car to fix this issue.”

2. As a Customer:

- “I want to check if the mechanic that worked on my car from a year ago is still here.”
- “I will book a service appointment for the second week of March.”
- “I want to know how much I will pay for the service.”

3. As a Receptionist:

- “I want to modify the bookings table.”
- “I want to manage basic mechanic information.”