STEP 1

Requirement analysis process

location

car

payment

reservation

invoice
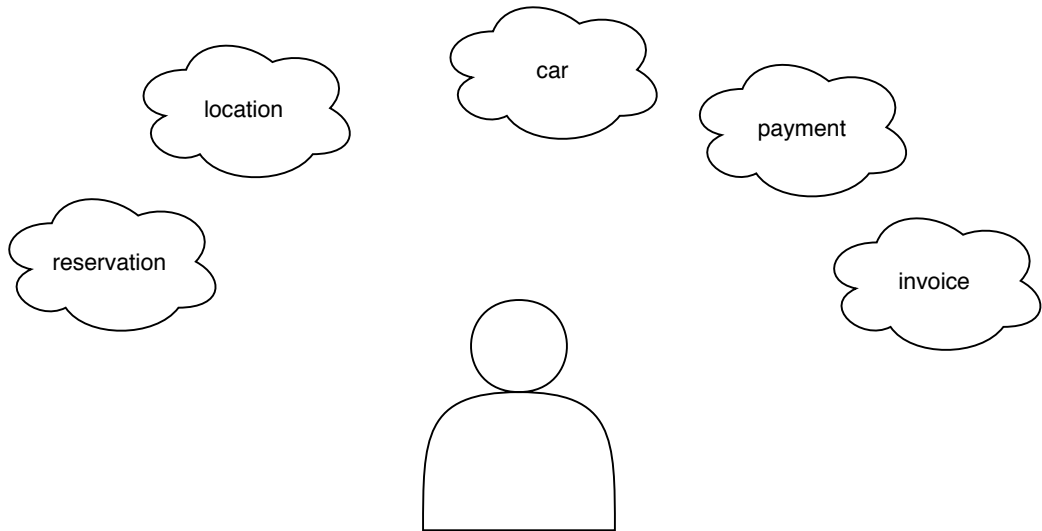
STEP 2

The Entity Relationship model

first_name

last_name

driver_license

customer

address

gender

credit_card

makes

pick_up_location

drop_off_location

start_date

end_date

reservation

owns

owns

location

City

street

number

phone

zip_code

car

seat

type

model

color

fuel
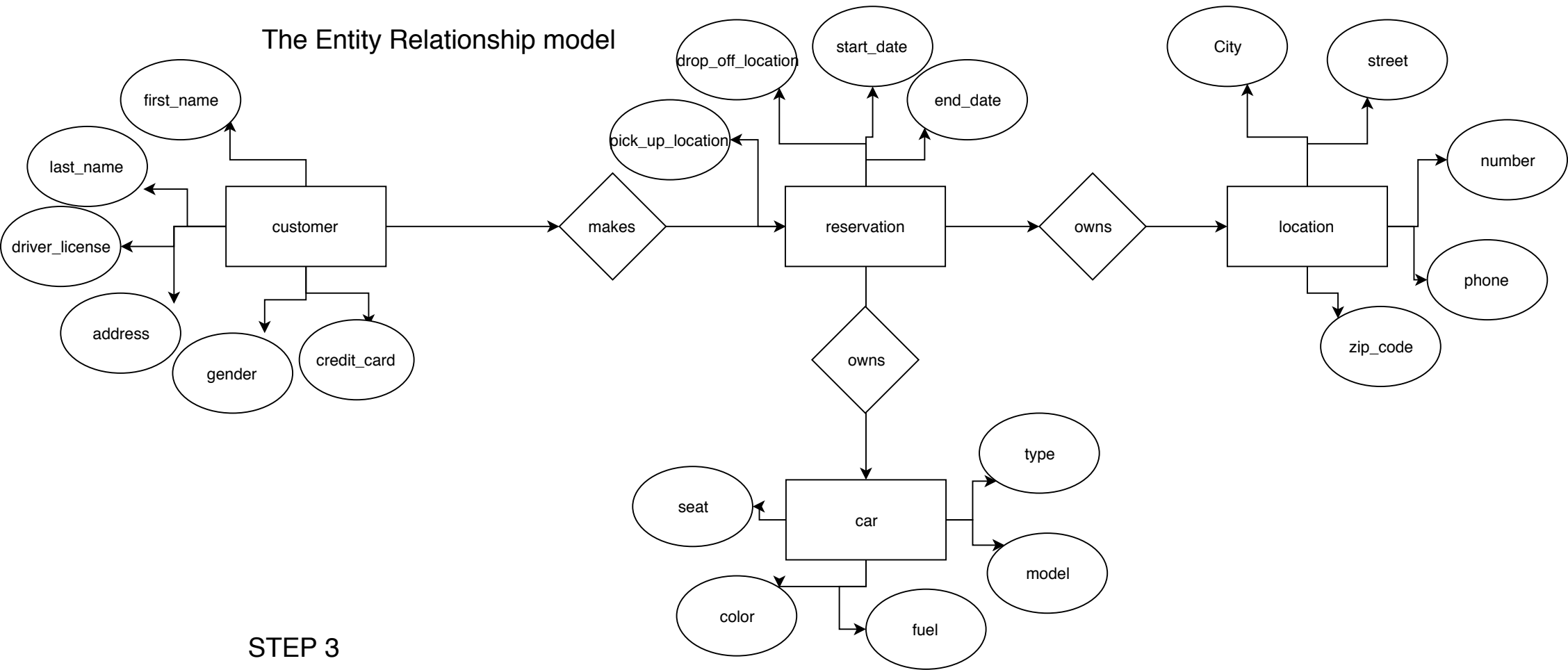
STEP 3

The Unified Modeling Language

Customer
pk_customer_id: int
first_name: VARCHAR
last_name: VARCHAR
emaill: VARCHAR
phone: int
fk_customer_detail_id: int
fk_customer_address_id: int

Reservation
pk_reservation_id: int
fk_customer_id: int
fk_pick_up_loc: VARCHAR
fk_return_loc: VARCHAR
fk_car_id: int
start_date: date
end_date: date

Locations
pk_loaction_id: int
city: VARCHAR
street: VARCHAR
sttr_num: int
zip_code: int

Customer_detail
pk_customer_detail_id
birth_place: VARCHAR
birth_date: date
driver_license: VARCHA
credit_card_num: int

customer_address
pk_customer_address
address_city: VARCHAR
address_contry: VARCH
address_zip: int
address_num: int
address_street: VARCH/

return_check
pk_return_check_id: int
fk_return_date: date

car
pk_car_id: int
type: VARCHAR
model: VARCHAR
color: VARCHAR
seat: int
fuel: VARCHAR
gear: VARCHAR

Invoice
pk_invoice_id: int
fk_reservation_id: int
fk_additional_charge: int
+ field: type
+ field: type

Additional charges
pk_additional_charge_id: int
fk_return_check_id. int
amount: int
reason: VARCHAR

Payment
pk_payment_id: int
fk_invoice_id: int
date: date
fist