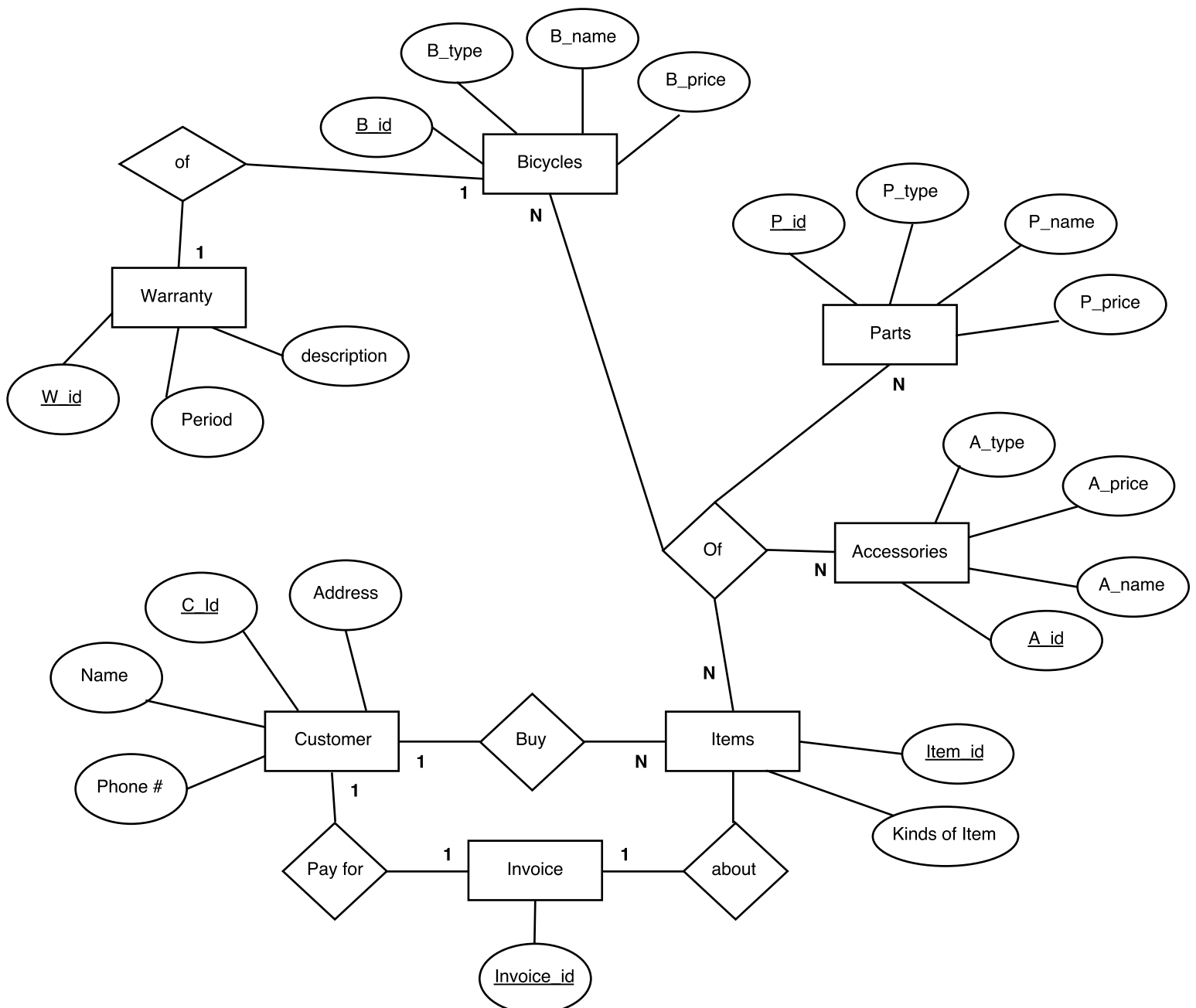


# Part 1 : Users and Questions

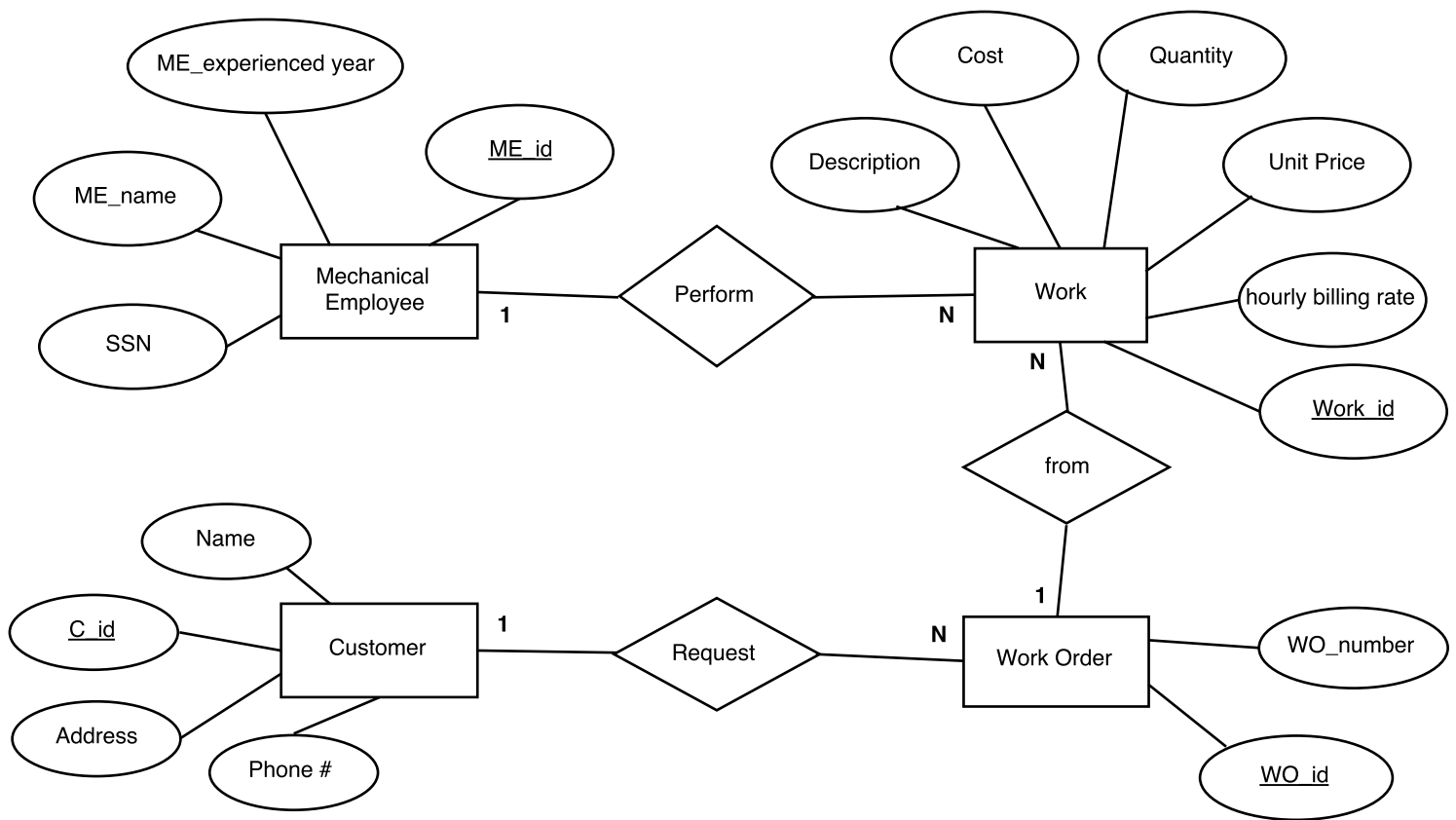
1. Customer : How much do I need to pay?  
What is the specific price for my billing(total price)?  
How does the bicycle warranty work?
2. Mechanical Employee : What is the work which I need to do today?  
What is the work order number?  
When is the due date for work?
3. Sales : What is the work which I need to do today?  
How many do I get work order from customer?  
How does the bicycle warranty work?

## Part 2 : User Schema

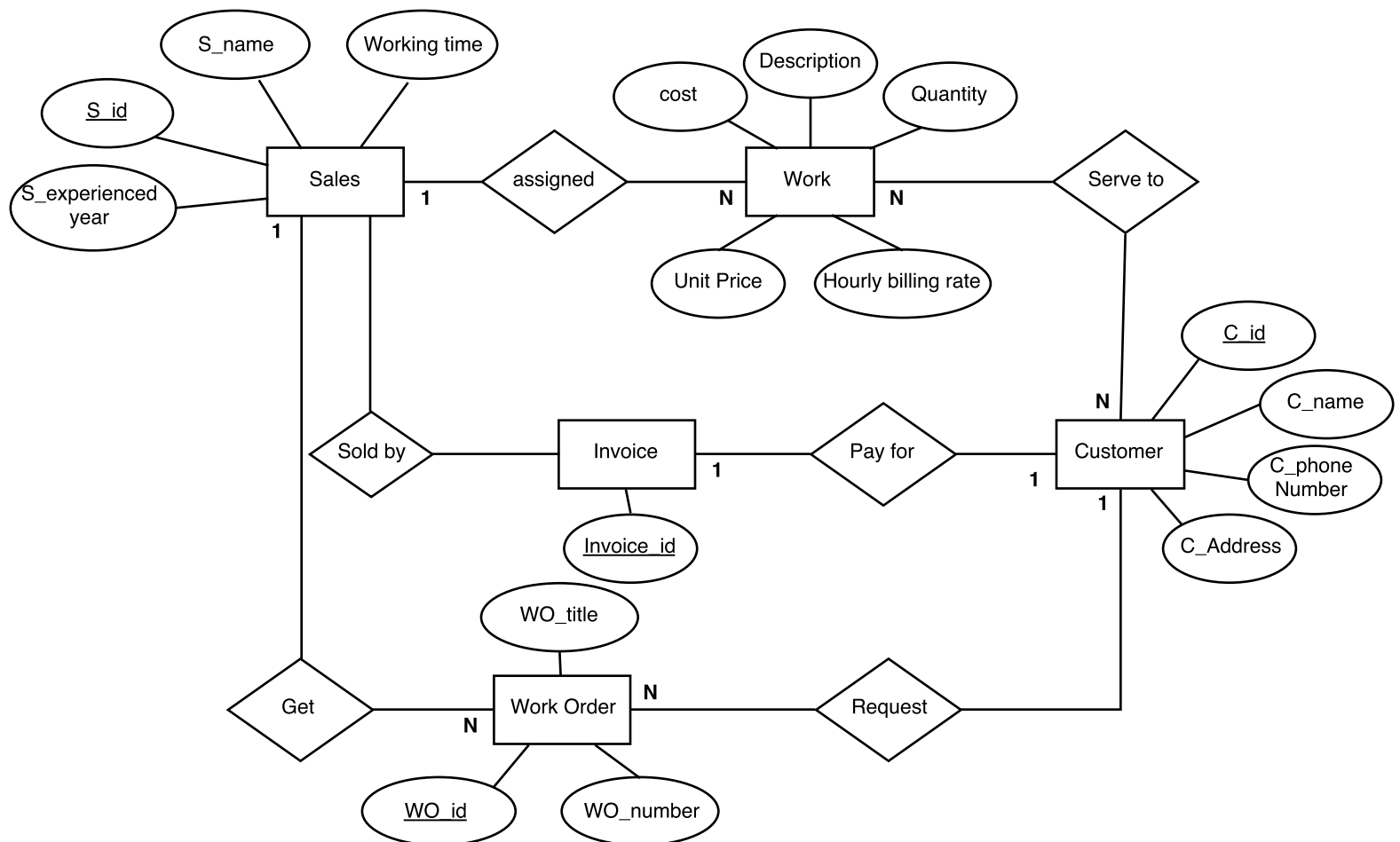
### 1. Customer



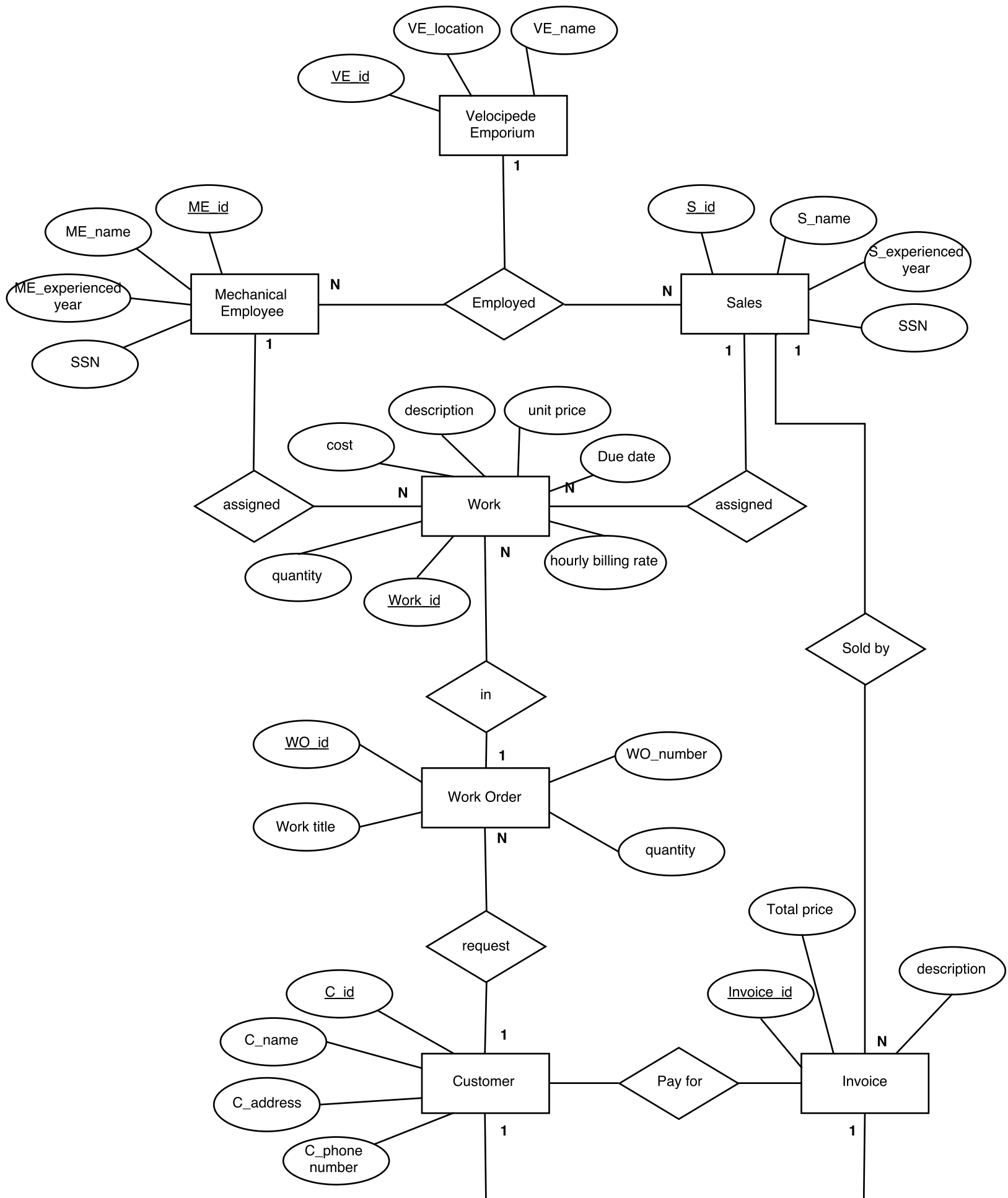
## 2. Mechanical Employess

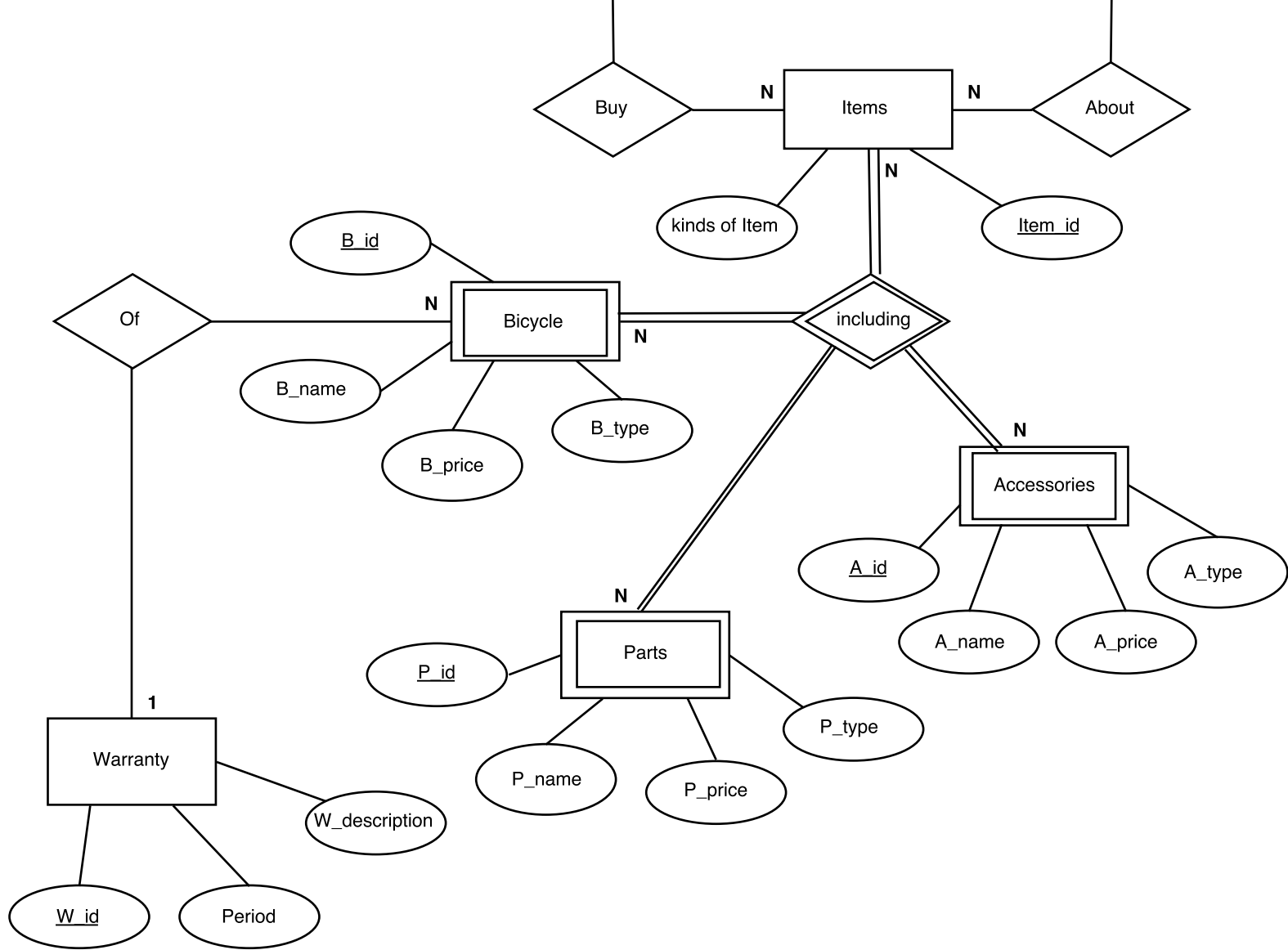


## 3. Sales



# Part 3 : Logical Schema





# Part 4 : Relational Model

## primary key, *Foreign Key*

- Velocipede Emporium ( id, location, name)
- Mechanical Employee ( id, SSN, name, experienced year)
- Sales (id, SSN, name, experienced year)
- Work (id, cost, quantity, description, unit price, due date, hourly billing rate, *WO\_number*)
- Invoice (id, total price, description)
- Work Order (id, Work title, number, quantity)
- Customer (id, name, address, phone number)
- Items (id, kinds of item)
- Bicycle (id, name, type, price)
- Parts (id, name, type, price)
- Accessories (id, name, type, price)
- Employed (VE\_id, ME\_id)
- Employed (S\_id, VE\_id)
- assigned (Work\_id, Sales\_id)
- assigned (Work\_id, ME\_id)
- Sold by (Sales\_id, Invoice\_id)
- in (Work\_id, WO\_id, *quantity*)
- Request (WO\_id, C\_id)
- pay for (C\_id, Invoice\_id, total price)
- including(A\_id, P\_id, B\_id, Item\_id)
- 

# Part 5 : Example Data