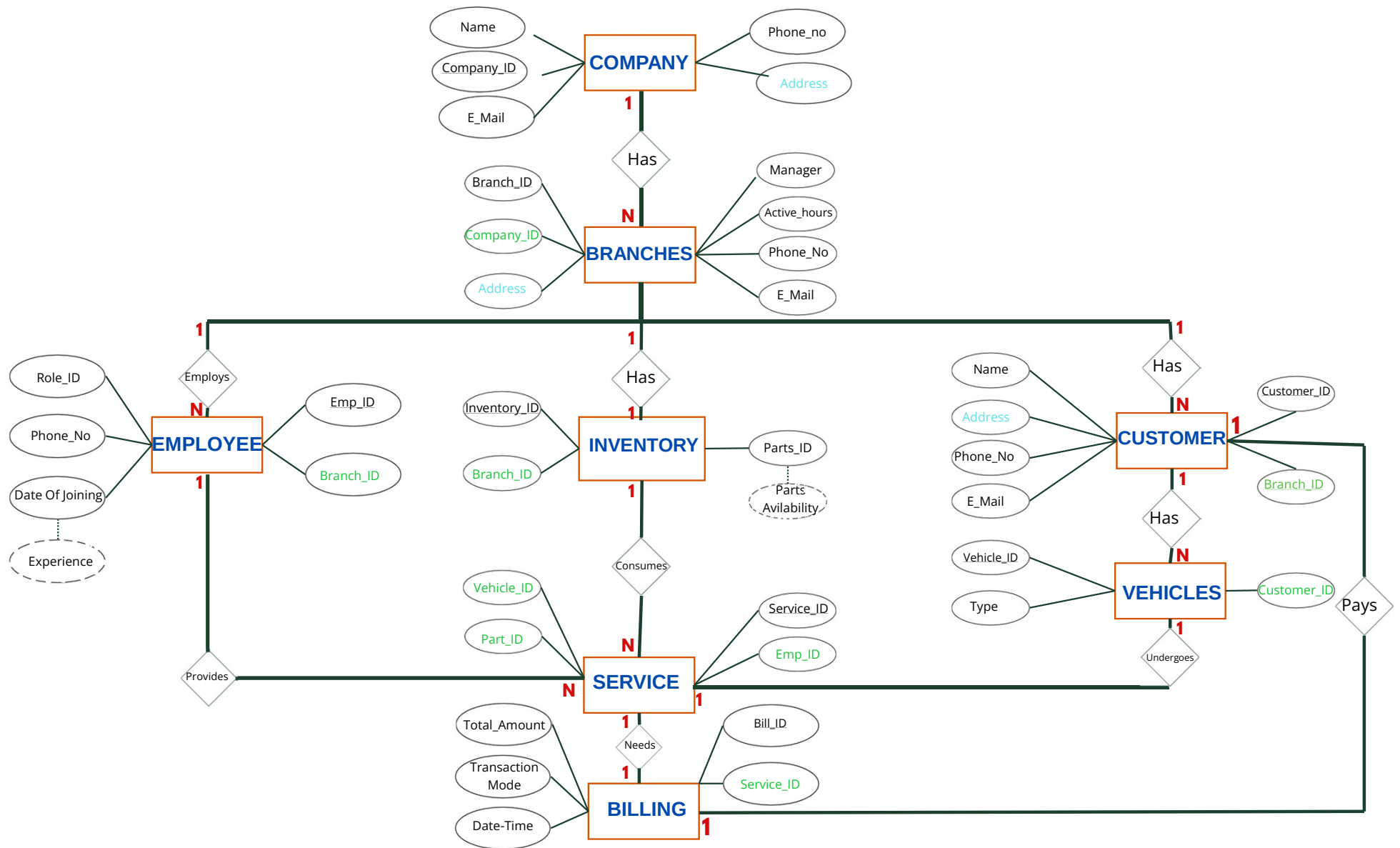




# **Vehicle Service Centre Management**

## **STEPS INVOLVED :**

- 1. One company has many branches. Each branch belongs to one company(1:N)**
- 2. One branch employs many employees. Each employee works at one branch(1:N))**
- 3. Customers are typically linked to branches. (N:1)**
- 4. One customer can own multiple vehicles. Each vehicle belongs to one customer(1:N)**
- 5. Each branch manages one inventory(1:1)**
- 6. One inventory item can be used in many services.(1:N)**
- 7. Many services can be handled by one employee, but each service is handled by one employee(N:1)**
- 8. Each vehicle undergoes 1 service at a time (1:1)**
- 9. Each service generates one billing record(1:1)**



# Database schemas:

Company, Branches, Employee, Inventory, Customer,  
Vehicle, Service, Billing

# Relational schemas:

**Company**-company\_id, name, e\_mail, phone\_no, address

company_id	name	e_mail	phone_no	address
C001	AutoCorp	<a href="mailto:contact@autocorp.com">contact@autocorp.com</a>	1234567890	New York, USA
C002	AutoFix	<a href="mailto:support@autofix.com">support@autofix.com</a>	9876543210	Los Angeles, USA
C003	SpeedyWheels	<a href="mailto:info@speedywheels.com">info@speedywheels.com</a>	4567891230	Chicago, USA
C004	CarCare	<a href="mailto:help@carcare.com">help@carcare.com</a>	7891234560	Miami, USA

**branches**-branch\_id, **company\_id**, manager, active\_hours,  
phone\_no,e\_mail,address

branch_id	company_id	manager	active_hours	phone_no	e_mail	address
B001	C001	John Smith	9:00-18:00	1234500000	<a href="mailto:john@autocorp.com">john@autocorp.com</a>	Manhattan, NY
B002	C002	Emma Brown	10:00-19:00	9876500000	<a href="mailto:emma@autofix.com">emma@autofix.com</a>	Beverly Hills, CA
B003	C003	Liam Johnson	8:00-17:00	4567800000	<a href="mailto:liam@speedywheels.com">liam@speedywheels.com</a>	Lincoln Park, IL
B004	C004	Olivia Davis	11:00-20:00	7891200000	<a href="mailto:olivia@carcare.com">olivia@carcare.com</a>	Downtown, Miami

**employees-emp\_id, branch\_id, role\_id,  
phone\_no,date\_of\_joining,experience**

emp_id	branch_id	role_id	phone_no	date_of_joining	experience
E001	B001	R001	1234501001	2021-06-15	3 years
E002	B002	R002	9876501002	2022-01-20	2 years
E003	B003	R003	4567801003	2020-08-10	4 years
E004	B004	R001	7891201004	2023-03-05	1 year

**inventory-inventory\_id, branch\_id, parts\_id, parts\_availability**

inventory_id	branch_id	parts_id	parts_availability
INV001	B001	P001	50
INV002	B002	P002	30
INV003	B003	P003	40
INV004	B004	P004	25

**customer** - Customer\_ID, **branch\_id**, Name, Address, Phone\_No, E\_Mail

customer_id	branch_id	name	address	phone_no	e_mail
CUST001	B001	Michael Green	NY, USA	1122334455	michaelg@gmail.com
CUST002	B002	Sarah White	CA, USA	2233445566	sarahw@gmail.com
CUST003	B003	David Black	IL, USA	3344556677	davidb@gmail.com
CUST004	B004	Laura Blue	FL, USA	4455667788	laurab@gmail.com

**vehicle** - vehicle\_id, **customer\_id**, type

vehicle_id	customer_id	type
V001	CUST001	Sedan
V002	CUST002	SUV
V003	CUST003	Hatchback
V004	CUST004	Convertible



**service-** service\_id, emp\_id, vehicle\_id, part\_id

service_id	bill_id	emp_id	vehicle_id	part_id
S001	BILL001	E001	V001	P001
S002	BILL002	E002	V002	P002
S003	BILL003	E003	V003	P003
S004	BILL004	E004	V004	P004

**billing-** bill\_id, service\_id, total\_amount, transaction\_mode, date\_time

bill_id	service_id	total_amount	transaction_mode	date_time
BILL001	S001	500	Credit Card	2024-11-01 10:30AM
BILL002	S002	750	Cash	2024-11-02 12:45PM
BILL003	S003	300	Debit Card	2024-11-03 09:15AM
BILL004	S004	400	Online Payment	2024-11-04 03:00PM



# Thank you!

**PRESENTED BY:**

**Jothikumar G**

**Chandru T**

**Nishanth Sanjay N**