Customer(cust\_no, name, email, phone, address)

* UNIQUE(email)

Order(order\_no, date, cust\_no)

* cust\_no: FK(Customer.cust\_no)
* IC-1: Every order(order\_no) must participate in the contains association.

Sale(order\_no)

* order\_no: FK(Order.order\_no)

pay(cust\_no, order\_no)

* cust\_no: FK(Customer.cust\_no)
* order\_no: FK(Sale.order\_no)

Department(name)

Employee(ssn, TIN, bdate, name)

* UNIQUE(TIN)
* IC-2: Every employee (ssn) must participate in the works association.

process(ssn, order\_no)

* ssn: FK(Employee.ssn)
* order\_no: FK(Order.order\_no)

Workplace(address, lat, long)

* UNIQUE(lat, long)

Office(address)

* address: FK(Workplace.address)

Warehouse(address)

* address: FK(Workplace.address)

works(ssn, name, address)

* ssn: FK(Employee.ssn)
* name: FK(Department.name)
* address: FK(Workplace.address)

Product(sku, name, description, price)

* Every product must be associated with a Supplier

EAN\_Product(sku, ean)

* sku: FK(Product.sku)

contains(order\_no, sku, qty)

* order\_no: FK(Order.order\_no)
* sku: FK(Product.sku)

Supplier(TIN, name, address, product\_sku, date)

* product\_sku: FK(Product)

delivery(address, TIN)

* address: FK(Warehouse.address)
* TIN: FK(supply-contract.TIN)