Point\_Of\_Retail(address,name)

Ivm(serial\_number, manuf)

installed\_at(serial number, manuf, address, nr)

* serial\_number, manuf: FK(Ivm)
* address: FK(Point\_Of\_Retail)

Retailer(TIN,name)

* UNIQUE(name)

Shelve(serial\_number, manuf, nr, height,categ\_name)

* serial\_number, manuf: FK(Ivm.serial\_number, Ivm.manuf)
* categ\_name: FK(Category.name)
* IC-X: serial\_number,manuf must exist in Ambient\_Temp\_Shelf or Warm\_Shelf or Cold\_Shelf
* IC-X: No shelve can exist at the same time in Ambient\_Temp\_Shelf, Warm\_Shelf or/and Cold\_Shelf

Ambient\_Temp\_Shelf(serial number, manuf, nr, height)

* serial\_number, manuf, nr: FK(Shelve.serial\_number, Shelve.manuf, Shelve.nr)

Warm\_Shelf(serial number, manuf, nr, height)

* serial\_number, manuf, nr: FK(Shelve.serial\_number, Shelve.manuf, Shelve.nr)

Cold\_Shelf(serial number, manuf, nr, height)

* serial\_number, manuf, nr: FK(Shelve.serial\_number, Shelve.manuf, Shelve.nr)

Product(ean,descr)

* IC-X: Every Product (ean) must participate in the has association

planogram(ean, serial\_number, manuf, nr, faces, units, loc)

* ean: FK(Product)
* serial\_number, manuf, nr: FK(Shelve.serial\_number, Shelve.manuf, Shelve.nr)

Category(name)

* IC-X: name must exist in Simple\_Category or Super\_category
* IC-X: No shelve can exist at the same time in Simple\_Category and Super\_Category

Simple\_Category(name)

* name: FK(Category.name)

Super\_Category(name)

* name: FK(Category.name)

has\_other(sub\_category\_name, super\_category\_name)

* super\_category\_name: FK(Super\_Category.name)
* sub\_category\_name: FK(Category.name)
* IC-X: super\_category\_name is always different from sub\_category\_name
* IC-X: there can’t be cycles between categories

has(ean,name)

* ean: FK(Product)
* name: FK(Category)

responsible\_for(serial\_number, manuf, categ\_name, TIN)

* serial\_number, manuf: FK(Ivm)
* categ\_name: FK(Category.name)
* TIN: FK(Retailer)

replenishment\_event(ean, serial\_number, manuf, nr, instant, TIN, units)

* serial\_number, manuf, nr, ean: FK(planogram.nr, planogram.ean, planogram.serial\_number, planogram.manuf)
* TIN: FK(retailer)
* IC-X: a Product can only be replenished on a shelf where its category is displayed.
* IC-X: units cannot exceed the number of units specified in planogram
* IC-X: a Product can only be replaced by the Retailer responsible for the Product Category

QUESTOES

1 – QUANDO COLOCAR O PONTO NA ENTIDADE PARA IDENTIFICAR O ATRIBUTO??