**Assignment #2: BIG CO.’s Business Rules**

**Employees Table**

* Every employee must have:
  + An id
  + A last name
  + A first name
  + A title
  + A title of courtesy
  + A birthdate
  + A hire date
  + An address
  + A city
  + A country
  + A phone
* Every employee could have:
  + A region
  + A postal code
  + A manager
* The id of every employee must be unique and auto incremental
* The manager of an employee must reference to another employee.
* The birthdate of an employee must be older than actual date

**Suppliers**

* Every supplier must have:
  + An id
  + A company name
  + A contact name
  + A contact title
  + An address
  + A city
  + A country
  + A phone
* Every supplier could have:
  + A region
  + A postal code
  + A fax
* The id of every supplier must be unique and auto incremental

**Categories**

* Every category must have:
  + An id
  + A name
  + A description
* The id of every category must be unique and auto incremental

**Products**

* Every product must have:
  + An id
  + A name
  + A supplier
  + A category
  + A unit price
  + A flag indicated if the product is discontinued
* The id of every product must be unique and auto incremental
* The default unit price of every product must be 0
* The default state of the flag is false.
* Every product must reference to a category and supplier
* The unit price must be greater or equal than 0

**Customers**

* Every customer must have:
  + An id
  + A company name
  + A contact name
  + A contact title
  + An address
  + A city
  + A country
  + A phone
* Every customer could have:
  + A region
  + A postal code
  + A fax
* The id of every customer must be unique and auto incremental

**Shippers**

* Every shipper must have:
  + An id
  + A company name
  + A phone
* The id of every shipper must be unique and auto incremental

**Orders**

* Every order must have:
  + An id
  + An employer
  + An order date
  + A required date
  + A shipper
  + A freight
  + A ship name
  + A ship address
  + A ship city
  + A ship country
* Every order could have
  + A customer
  + A shipped date
  + A ship region
  + A ship postal code
* The id of every order must be unique and auto incremental
* Every order must reference a shipper and an employee
* Every order could reference a customer
* The default order for a freight is 0

**Order details**

* Every order detail must have:
  + An order
  + A product
  + A unit price
  + The quantity ordered
  + A discount
* Every order detail must have a unique composition of order and product
* The default unit price is 0
* The default quantity is `1
* The default discount is 0
* Every order detail must reference an order and a product.
* The discount must be between 0 and 1.
* The quantity must be greater than 0
* The unit price must be greater or equal than 0.