

Assignment #2: BIG CO.'s Business Rules

Members

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Employees Table

- Every employee must have:
 - o An id
 - o A last name
 - o A first name
 - o A title
 - o A title of courtesy
 - o A birthdate
 - o A hire date
 - o An address
 - o A city
 - o A country
 - o A phone
- Every employee could have:
 - o A region
 - o A postal code
 - o 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:
 - o An id
 - o A company name
 - o A contact name
 - o A contact title
 - o An address
 - o A city
 - o A country
 - o A phone
- Every supplier could have:
 - o A region
 - o A postal code
 - o A fax
- The id of every supplier must be unique and auto incremental

Categories

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

Products

- Every product must have:
 - o An id
 - o A name
 - o A supplier
 - o A category
 - o A unit price
 - o 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:
 - o An id
 - o A company name
 - o A contact name
 - o A contact title
 - o An address
 - o A city
 - o A country
 - o A phone
- Every customer could have:
 - o A region
 - o A postal code
 - o A fax
- The id of every customer must be unique and auto incremental

Shippers

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

Orders

- Every order must have:
 - o An id
 - o An employer
 - o An order date
 - o A required date
 - o A shipper
 - o A freight
 - o A ship name
 - o A ship address
 - o A ship city
 - o A ship country
- Every order could have
 - o A customer
 - o A shipped date
 - o A ship region
 - o 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:
 - o An order
 - o A product
 - o A unit price
 - o The quantity ordered
 - o 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.