ER Modifications (2nd Deliverable)

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As we proceeded to the next steps of the project (schema and MySQL table creation), we discovered that we should change some attributes, add ones, and remove other ones.

The attributes that were added are:

1. 1/2 days, 1 days, 2 days & 3 days : they represent the amount of money that should be paid for a shipment that stayed in the port without being loaded onto a ship in a specific amount of time. The cost for each duration changes and thus we need a column for each period with the related invoice paid.
2. Customer Name : The name of the customer. It should be defined as it is an important description of each customer.
3. Customer Group: the group to which the customer belongs. Just like the last attribute, it is also important.
4. Freight invoice 1, freight invoice 2 & freight invoice 3: There are three freight invoices, not only one. The number of these invoices depends on the type of shipment. For instance, if a product is shipped in two ships (or two different shipping companies), two freight invoices should be included for each ship (or company).
5. Days of storage 1, Days of storage 2 & Days of storage 3: As explained above, each shipment will need a days of storage counter because they can be two or three shipments.
6. Storage cost 1, Storage cost 2 & Storage cost 3: Each shipment of the three mentioned above has its own cost. That’s why these attributes are important.
7. Status 2: This attribute gives another crucial information about the shipment. It should be added to the ER diagram.
8. Volume per container: It represents the volume that each container can maintain maximum value).
9. Sales Order: Just like outbound delivery, it is a number that defines each transaction (or set of transactions) but only for the sales transaction table.
10. Transporter: The transporter name that will deliver the shipment.
11. Real FOB: it is the FOB value, but it’s the real value (in the invoice) and not the estimated value that we precalculated.
12. Payment status : Status of the payment (included in the deal) between the customer and the producing company.

On the other hand, some attributes were not needed because they are automatically calculated (queries), and they should be dropped. The removed attributes are:

1. Deadline payment
2. Invoiced Amount
3. Stuffing invoice

Last but not least, we changed the name of the relation between sales and product to “contains” to avoid redundancy and make the name of the relationship clearer.