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|  | **ER Modifications (2nddeliverable)** |





GROUP:

CHOUKRI Zakaria

BELMOUDDEN Hajar

HANIF Maha

YOUSS Ayman

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|  | | | **DBMS PROJECT** | | | | |  | | |
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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: | | | | | | |  | |
|  | | **CHANGES:** | | |  |  | | |  | |
|  | 1. 1/2 days, 1 days, 2 days & 3 days (from the entity sales transaction): 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 (from the entity customer): The name of the customer. It should be defined as it is an important description of each customer. 3. Customer Group (from the entity customer): the group to which the customer belongs. Just like the last attribute, it is also important. | | | |  | 1. Days of storage 1, Days of storage 2 & Days of storage 3 (from the entity shipment): As explained above, each shipment will need a days of storage counter because they can be two or three shipments. 2. Storage cost 1, Storage cost 2 & Storage cost 3 (from the entity shipment): Each shipment of the three mentioned above has its own cost. That is why these attributes are important. | | | |  |

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| 1. Status 2 (from the entity delivery): This attribute gives another crucial information about the shipment. It should be added to the ER diagram. 2. Volume per container (from the entity delivery): It represents the volume that each container can maintain maximum value). 3. Sales Order (from the entity sales transaction): Just like outbound delivery, it is a number that defines each transaction (or set of transactions) but only for the sales transaction table.   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  Finally, we changed the name of the relation between sales and product to “contains” to avoid redundancy and make the name of the relationship clearer. |  | 1. Transporter (from the entity delivery): The transporter name that will deliver the shipment. 2. Real FOB (from the entity sales transaction): it is the FOB value, but it’s the real value (in the invoice) and not the estimated value that we precalculated. 3. Payment status (from the entity sales transaction): Status of the payment (included in the deal) between the customer and the producing company. |