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# Short relational database description

Customer and invoice ids are included in sales order table. System uses these ids to retrieve associated invoices and customers when retrieving sales orders. Clothing, Equipment and gun replica tables include product ids. This way all the detailed information about the product can retrieved when retrieving products from Clothing, Equipment or gun replica tables. Product table includes supplier id, so that suppliers could be associated with products. Sales orders and products are associated by creating new entries with product id and sales order id in Purchase table.

# Relational database model

# D:\ucn-Persistence-dm73-group8\relational model.jpg

# Use Cases

**Use case:** Create Sales Order

**Actor:** Worker

**Pre-conditions:**

* Invoice with specified id should exist
* Customer with specified id should exist

**Post-condition:**

* Sales order associated with invoice and customer is created

**Frequency:** as often as needed

**Main scenario**

* Customer places order
* Worker finds customer in the system (his id) or adds him
* Worker records invoice information
* Worker enters customer and invoice ids and other relevant information to the sales order form
* Sales order is added to the system after the worker confirms the entered data by pressing OK

**Alternative scenario**

* Customer places order
* Worker finds customer in the system (his id) or adds him
* Worker records invoice information
* Worker enters customer and invoice ids and other relevant information to the sales order form
* Worker tries to confirm the entered data by pressing OK
  + Customer with the specified id is not found: system shows an error message informing the worker about invalid customer id
  + Invoice with specified id is not found: system shows an error message informing the worker about invalid customer id
* Worker corrects the entered data
* Sales order is added to the system after the worker confirms the entered data by pressing OK

**Use case:** Update Sales Order

**Actor:** Worker

**Pre-conditions:**

* sales order should exist

**Post-conditions:**

* sales order is corrected

**Frequency:** as often as needed

**Main scenario**

* Sales order needs to be updated
* Worker selects sales order to be edited and presses “Edit”
* Worker replaces information in some fields with corrected data
* Worker submits the form by pressing ok
* Sales order information is updated

**Alternative scenario**

* Sales order needs to be updated
* Worker presses “Edit” without selecting the sales order first
  + System informs the user that no sales order was selected
* Worker selects sales order and presses “Edit”
* Worker enters new information to the form
* Worker tries to submit the form
  + customer id is incorrect: system informs the user that customer with the specified id was not found
  + invoice id is incorrect: system informs the user that invoice with the specified id was not found
* Worker corrects incorrect information and tries to submit the form again
* Updated information is recorded to the system