MOSCOW Prioritisation for IMS

# Must have (all must be present, or project is considered failure):

* Add a *single* **customer** (pk, first\_name, surname) to the system
* View *all* **customers** in the system
* Update a *single* **customer** in the system based on criteria
* Delete a *single* **customer** in the system based on criteria
* Add a *single* **item** to the system
* View *all* **items** (pk, name, price) in the system
* Update a *single***item** in the system based on criteria
* Delete a *single* **item** in the system based on criteria
* Create a *single* **order** (pk, fk\_customer) in the system
* View *all* **orders** in the system
* Delete a *single* **order** in the system based on criteria
* Add a *single* **item** to an **order**
* Calculate a cost for a *single* **order** based on criteria
* Delete a *single* **item** in a *single* **order** based on criteria
* Replicate a many to many relationship between order and item via order\_item (fk\_order, fk\_item)
* If an **order** is deleted in the system all orders with that fk in order\_item must also be deleted from the system
* If an **item** is deleted in the system all order with that item in order\_item must also be deleted from the system (alternative would be to write an try catch)
* If a **customer** is deleted all orders associated to them should be deleted from the system

# Should have (Useful but not critical):

* customer has a **middle\_initial** field
* Update *multiple* **customers** in the same prompt in the system based on criteria
* Delete *multiple* **customers**in the same prompt in the system based on criteria
* Update *multiple* **items** in the same prompt in the system based on criteria
* Delete *multiple* **items**in the same prompt in the system based on criteria
* Update *multiple* **orders** in the same prompt in the system based on criteria
* Delete *multiple* **orders**in the same prompt in the system based on criteria
* Delete *multiple* items in an  **order** in the same prompt in the system based on criteria
* Add *multiple* **order\_item’s** in the same prompt to the system
* Delete *multiple* **order\_item’s**in the same prompt in the system based on criteria
* Update *multiple* **order\_item’s** in the same prompt in the system based on criteria
* View (a) **customer(s)** based on
* View a **item** based on full name
* View (an) **order(s)** based on customer ID
* View (an) **order\_item(s)** based on whether they meet input criteria
* ASCII columns if not already implemented

# Could have (Low priority refinement):

* Ability to check whether customer of the same name exists after input for customer creation
  + If same exists then alert user of duplicate name and ask if they will to create the record
  + The query is either cancelled or performed depending on user input appropriately
* If update query is about to modify more than one record warn user of this change (except for order\_items)
  + Let user decide whether they want to view records, update the records, or cancel
  + If view then all records about to be changed and only those should be viewed, then given the option to modify or cancel
  + If modify then all records that meet the criteria are edited
  + If cancel the query is cancelled and the database does not change
* Same as above but now displays the number of records
* Same as above but for delete
* Special warning for modifying or deleting all records in a table
* Additional step for updating multiple records is to view updated records
* Warn before users to update order\_items solely based on fk\_item
* Additional option menu at the starting menu to turn on/off warnings
  + Ability to turn these on/off depending on the submenu or action
* Ability to search and view customer by part of a name (start/middle/end (only one))
* Ability to search and view (a)n item(s) by its price alone
* Ability to search and view (a)n item(s) by part of its name alone (start/middle/end (only one))
* Ability to search and view (a)n item(s) by its rating alone
* Add *multiple* **orders** in the same prompt to the system
* Add *multiple* **items** in the same prompt to the system
* Add *multiple* **customers** in the same prompt to the system
* Block a query that attempts to make an order with a customer ID that is not being used

# Won’t have (Beyond scope of project):

* Have a field in the system for further customer information beyond stated above
* Have **encryption** of information at any stage of the communication process between the user and database
* Database will not have a stage of **personnel identification** before data access or CRUD functions
* **item** table will not have a quantity field
* Name check when adding a customer/item will not have a “similar to” existing record
* Ability to read information with a subset of the fields of that table
* Add a customer during order creation if the customer ID provided is not already in use

# Changelog:

* + 1. -21/1/21 First version with 4 subheadings and all user stories in specifications into must have
    2. -22/1/21 Added “Block query” to could and “Adding customer during order creation” to won’t have. Removed some fields for some tables in must have.