

Instructions

The database file **MUST** be in the same directory as the jar file.

Do not change the database name or structure. You **MAY** change information in the database but be sure to save the changes before running the program. **WARNING** – Many tables contain foreign keys and information must be inserted/deleted in a specific order. The recommended method of adding data to database is using the program.

When an order is to be sent to the supplier (either because of stock shortage or it is one day before the routine order and cannot be changed anymore), it is printed to the screen in the command line. Note that when an order arrives at a store which previously did not register that it sold a certain product, the product will automatically be added to the store with default values for shelves, minimum and target amounts.

Upon execution, the system opens a main menu with the possible commands. Each menu thereafter will also print the possible commands. Exiting a menu will take you back to the previous menu. Exiting the Main Menu closes the program. Specific instructions regarding input format is included in the program.

First steps

Welcome to Super-li Program.

The system has all the options to allow you to manage your suppliers, the agreements they are signed on, items you can order and the orders themselves. The following will explain every possible action you can choose

Main menu

In the first screen you have 3 options :

Manage suppliers , Manage Inventory and Exit.

```
Welcome to the Main Menu!  
  
What would you like to do?  
1 -- Manage Suppliers  
2 -- Manage Inventory  
3 -- Exit  
1
```

Suppliers menu

For Manage Suppliers press 1, than you will go the next screen:

Press 1 for viewing supplier's information, agreements and orders.

Press 2 to add or remove a supplier.

```
Welcome to the Suppliers Menu!  
  
What would you like to do?  
1 -- View supplier's card  
2 -- Add/Remove supplier  
3 -- Exit
```

Add/Remove Supplier

To reach this screen : main menu -> press 1 -> Supplier's Menu -> press 2 .

In this window you can add / remove a supplier.

To add a Supplier press 1.

To remove press 2.

To Exit press 3.

```
What would you like to do?  
1 -- Add Supplier  
2 -- Remove supplier  
3 -- Exit
```

Insert the data according to the instructions. If you succeed a message with the supplier Id will be printed to the screen.

Supplier's Info

To reach this screen : main menu -> press 1 -> Supplier's Menu -> press 1 .

To View Supplier information press 1
To edit Supplier information press 2.
To view agreement press 3.
To add a new agreement press 4.
To add / delete Contacts press 5.
To add / delete Manufacturers press 6.
To view Order press 7.

```
What would you like to do?  
1 -- View Information  
2 -- Edit card  
3 -- View agreement  
4 -- New agreement  
5 -- View contacts  
6 -- View represented manufacturers  
7 -- View order  
8 -- Exit  
|
```

Edit Supplier's information

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 2) .

To change bank number of the supplier press 1.
To change the address of the supplier press 2.
To change the name of the supplier press 3.
To change the paying agreement press 4.

```
Here you can change the Card's info  
  
What would you like to do?  
1 -- Edit Bank Number  
2 -- Edit Address  
3 -- Edit Name  
4 -- Edit Paying Agreement  
5 -- Exit
```

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

View agreement

Be aware that you need an agreement with this supplier to enter this window, if there is no agreement the window won't open.

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 3)

To view all Items press 1. Be aware: you need to have
The Item's info n advance!

To add an Item press 2.
To remove an Item press 3.
To view Item's Info press 4.
To change the agreement type press 5.
To change all the days of the delivery press 6.
To add days of delivery press 7.

```
What would you like to do?  
1 -- View all items  
2 -- Add item to Agreement  
3 -- Remove item from agreement  
4 -- View item  
5 -- Change Agreement type  
6 -- Change days of delivery  
7 -- Add days of delivery  
8 -- Remove day of delivery  
9 -- Exit
```

To remove day of delivery press 8.

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

New agreement

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 4) .

Insert the data according to the instructions. Be aware that you need to enter the items of the agreement also, be prepared in advance!

The agreement type is a number, you can choose :

1 is routine supplier.

2 is by order supplier.

3 is self Transport.

If you succeed a message will be printed to the screen.

View Contacts

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 5).

To add a contact press 1.

To remove a contact press 2.

To view all contacts press 3.

```
Here you can view all the Supplier's info

What would you like to do?
1 -- Add Contact
2 -- Remove Contact
3 -- View contacts
4 -- Exit
```

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

View Manufacturers

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 6).

To view all manufacturers press 1.

To add a manufacturer press 2.

To remove a manufacturer press 3.

```
Here you can view all the Supplier's Manufacturers info

What would you like to do?
1 -- View Manufacturers
2 -- Add manufacturer
3 -- Remove manufacturer
4 -- Exit
```

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

View Orders

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 7).

To view order information press 1.

To make a new Order press 2.

To edit an Order press 3.

```
Here you can view Orders and make new Ones!
```

```
What would you like to do?
```

```
1 -- View Order
```

```
2 -- Make new Order
```

```
3 -- Edit order
```

```
4 -- Exit
```

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

Edit Order

To reach this screen : main menu (press 1) -> Supplier's Menu (press 1) -> Supplier's info (press 7) -> View Order (press 3).

To add an item to an Order press 1.

To remove an item from an Order press 2.

To change the quantity of an Item in this Order press 3.

```
Choose an option:
```

```
1) Add an item to the order
```

```
2) Remove an item from the order
```

```
3) Change the quantity of an item in the order
```

```
4) Back
```

Insert the data according to the instructions. If you succeed a message will be printed to the screen.

Tables

Routine agreements

SupplierID	Day	LastOrderID
Filter	Filter	Filter
1	1	1
1	2	1
1	3	1
1	4	1
1	5	1
1	6	1
1	7	1

By Order agreements

SupplierID	Time
Filter	Filter
2	3

Suppliers

ID	Bank	Address	Name	Payment Agreement	AgreementType
Filter	Filter	Filter	Filter	Filter	Filter
1	123456	Hertzel	Avi	check	1
2	111111	Yosef Tkoa	Beni	check	2

Supplier Contacts

SupplierID	Name	Phone
Filter	Filter	Filter
1	Yael	0508647894
1	Avi	086475421
2	Beni	0508647894
2	Kvodi	086475421

Supplier manufacturers

SupplierID	Manufacturer
Filter	Filter
1	Tnuva
1	Osem
1	Elit
1	Struass
1	Yoplait
1	Milk 1L Tara
2	Tnuva
2	Elit
2	Struass
2	Osem
2	Milk 1L Tara
2	Yoplait

AgreementItems

SupplierID	ProductID	Manufacturer	Name	PricePerUnit	IdBySupplier
Filter	Filter	Filter	Filter	Filter	Filter
1	1	Osem	Bam...	3.5	1
1	2	Tnuva	Milk ...	4.0	2
1	3	Milk 1L Tara	melon	4.0	3
1	4	Yoplait	Yopl...	5.9	4
1	5	Elit	Halva	7.0	5
2	1	Osem	Bam...	3.5	1
2	2	Tnuva	Milk ...	4.0	2
2	3	Milk 1L Tara	melon	4.0	3
2	4	Yoplait	Yopl...	5.9	4
2	5	Elit	Halva	7.0	5

Bulk Prices

ProductID	SupplierID	Quantity	Discount
1	1	100	20
2	1	100	20
2	1	500	70
2	1	200	50
3	1	100	20
3	1	500	50
3	1	200	40
4	1	20	80
4	1	10	20
5	1	20	50
5	1	10	20
5	1	30	80
1	2	100	30
2	2	100	30
2	2	500	80
2	2	200	60
3	2	100	30
3	2	500	60
3	2	200	50
4	2	20	90
4	2	10	30
5	2	20	60
5	2	10	30
5	2	30	90

Order

OrderID	SupplierID	StoreID	CreationTime	ArrivelTime
Filter	Filter	Filter	Filter	Filter
1	1	1	2022-05-11	2022-05-16
3	2	1	2022-05-09	2022-05-12
4	2	1	2022-05-12	2022-05-15

OrderItems

ProductID	OrderID	IDBySupplier	Quantity	PricePerUnit	Discount	FinalPrice
Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	1	1	80	3.5	0	280.0
2	1	2	100	4.0	20	320.0
3	1	3	100	4.0	20	320.0
1	3	1	20	3.5	0	70.0
2	3	2	20	4.0	0	80.0
3	3	3	20	4.0	0	80.0
4	4	4	20	5.9	90	11.8
5	4	5	20	7.0	60	56.0

Category

ID	Name	Parent
Filter	Filter	Filter
1	Snacks	NULL
2	Dairy	NULL
3	Milk	2
4	Milk 1L	1
5	Milk 2 Liters	3
6	Sweets	1
7	Salty snacks	1
8	Delicacies	2
9	Yoplait	8
10	Milky	8

Defective Items

ReportID	StoreID	ProductID	Date	Amount	EmployeeID	Description	Defect	InWarehouse
Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	1	1	2022-05-16	5	1	5 small Bambas were found open	Damaged	0
2	1	2	2022-05-17	2	3	2 Milk 1L tnuva were expired	Expired	1
3	1	2	2022-05-19	13	207		Damaged	1
4	1	2	2022-05-19	15	207	FUCK THE SYSTEM	Expired	0

Location

LocationID	Product	StoreID	inWarehouse
Filter	Filter	Filter	Filter
1	1	1	0
2	1	1	1
3	2	1	0
4	2	1	1
5	3	3	0
6	3	3	1

Location to shelf

LocationID	Shelf
Filter	Filter
1	13
1	14
2	14
3	85
4	10
5	90
6	14

Product

ID	Category	Name	Weight	Manufacturer	Price
Filter	Filter	Filter	Filter	Filter	Filter
1	7	Bamba small	0.2	Osem	3.5
2	4	Milk 1L Tnuva	1.0	Tnuva	4.0
3	4	Milk 1L Tara	1.0	Tara	4.0
4	9	Yoplait Pineapple	0.15	Yoplait	5.9
5	6	Halva	0.3	Elit	7.0

Sales

SaleID	startDate	endDate	Percent
Filter	Filter	Filter	Filter
1	15.05.2022	16\05\2022	20
2	14.05.2022	01\09\2022	10
3	01.08.2022	01\09\2022	30

Sales to Category

SaleID	CategoryID
Filter	Filter
1	1
2	2

Sale to product

SaleID	ProductID
Filter	Filter
2	1
3	4

Stock Report

StoreID	ProductID	AmountInStore	AmountInWarehouse	minStore	targetStore	AmountInDelivery
Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	2	55	41	80	300	0
3	3	20	30	65	250	0
1	1	10	15	40	150	110

Stores

Id
Filter
1
2
3
4
5

Libraries we used

*.java.util

java.sql.SQLException – to throw Exceptions

java.text.SimpleDateFormat – to transfer from string to date and vice versa

java.time.LocalDate – to save dates

java.time.format.DateTimeFormatter – to show the date days, month, year...

java.time.Period - calculate days between dates

java.util.Calendar – calculate days between dates

java.sql.Connection – for the DB

java.sql.ResultSet – to upload records from DB

java.util.Optional – used in the Result<T> in presentation

java.time.format.DateTimeFormatterBuilder

maven - to use SQLite

net.jcip.annotations.NotThreadSafe - for tests to run In one thread

org.junit.jupiter.api.BeforeEach – for tests

org.junit.jupiter.api.Test – for tests