

## Documentation Catering Point Of Sale. (POS)



### Screenshot mainscreen.

### Point of Sale Catering

#### Custom daily operations

The system detects if a logon -, product - or a client barcode is scanned.

When no logon is established processing is blocked.

The red sign in the notification bar above the display is showed.

By valid logon the notification bar shows a green sign.

The logon is invisible with scanning.

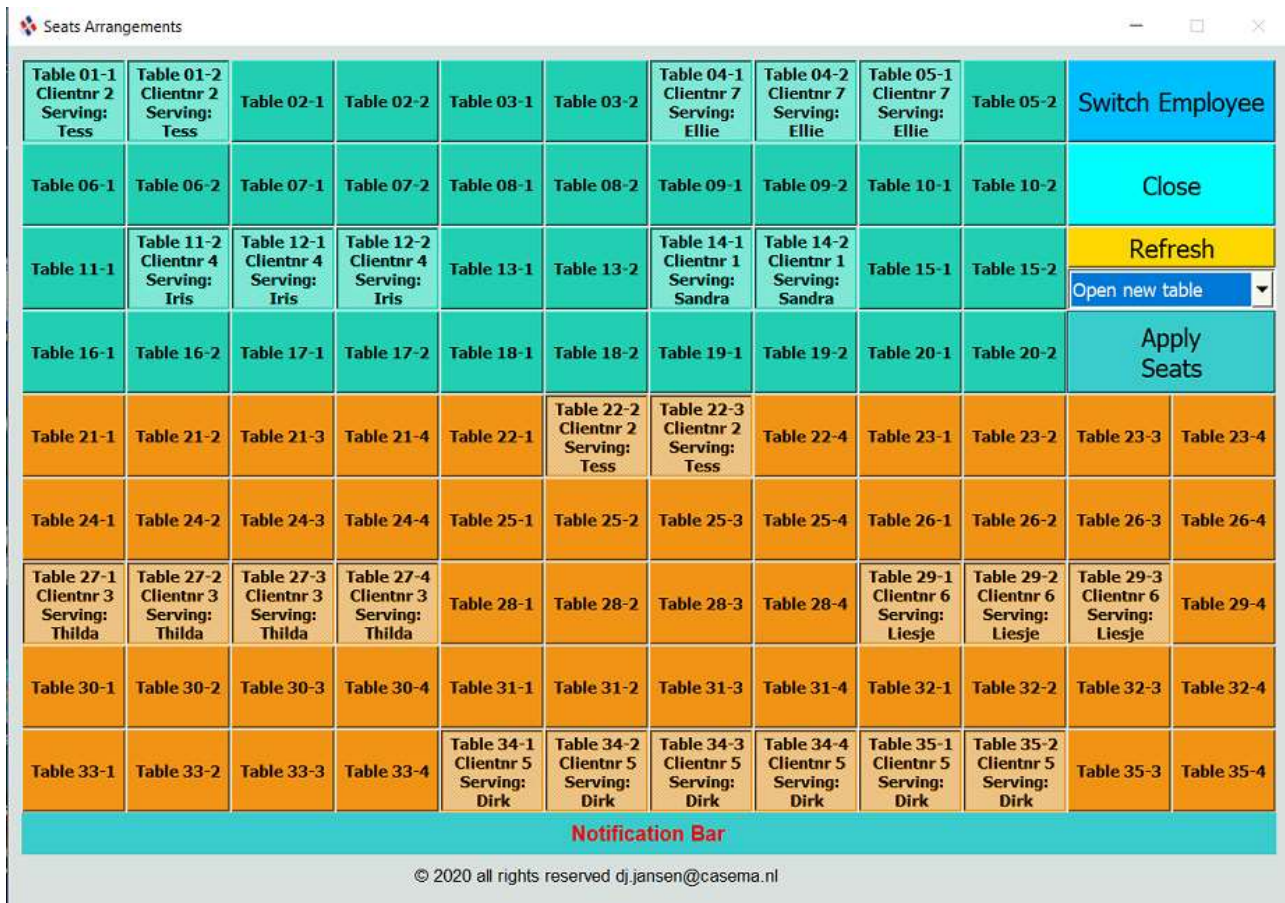
When the logged employee logs the barcode a second time, the employee is logged out.

When another employee logs his barcode, the logon is switched towards this employee.

The normal operation starts with logon by barcode.

When customers arrive, the employee push the button “Open Table/Change Tables/Seats”

The table management screen is displayed:



Each button on the screen represents a seat. The green buttons represents tables paired with two seats. The brown buttons represents tables with 4 seats. In total 100 seats are available.

By clicking the buttons the seats are checked as occupied. For groups of customers every combination of tables and seats is possible. For conformation chose pulldown menu "Open new table" (default choice) and push button "Apply Seats". With this "Open new table" choice more arrangements can be made after each other. Push the seats and push the button "Apply seats" and repeat this for the next client or group of clients.

By applying a popup is showed, asking to print a client barcode. This barcode serves the purpose to switch fast between clients with the printed barcode.

During the stay, it's possible to add or to free up seats by leaving or arriving members of a group.

When no costs are made it it's possible to remove all seats.

Establishe this with menu choice "Change table client <number> ", with the client number who booked the arrangement. Only customers linked by the concerned employee are showed in the choice fields. For every client combination from the concerning employee a line is added in the menu choices.

When costs are made the last seat cannot be removed in this screen. It will be removed if the payment is done in the mainscreen.

On the buttons for the seats, the table and seatnumber, clientnumber and serving employee is showed.

The buttons with there belongings are visible for every employee, but only operable for the employee who established the linking.

With the "Switch Employee" button it is possible to transfer the service to another employee by end of working time or interim absence.

If all buttons for the seats are confirmed, push the “Refresh” button to make the changes visible, and push the “Close” button to leave the tablemanagement screen. Next push the “Select Client” button to select the customers to serve, for fast selecting or switching between clients use the barcode from the concerning client. Here only the linked clients for the concerning employee can be chosen.

After this steps has been accomplished, it is possible to choose products with the productbuttons, or scanning products. Default a number of 1 is chosen. If more of the same products are required, use the spinbox to change the number (1 towards 99) before scanning or pushing a button. After scanning of each product or pushing a product button the number of the spinbox is reset to 1. For return bookings a little button before the number is provided. Push this checkable button before operating and the numbers will be operable from -1 towards -99. After each operation the spinbox will be reset to its original state, to avoid wrong bookings.

The product buttons are organized as follows:

The 10 maingroups with the double arrows are accessible by pushing the double arrowbuttons up or down.

Here a picture of the maingroup is presented between the arrowbuttons. With the button above the logo, 5 subgroups of each maingroup can be chosen. Left on the screen 18 productbuttons can be pushed, possibly preceded with the right number if more than 1 product required. The consumptions and their prices are showed in the little display. Also the total amount of the consumptions is showed. For a clearer total overview push the button “Big Display”

After serving the client, the next client can be chosen, with the barcode, or by the button “Select Client”.

If the client belongs to another employee, first switch the employee with the barcode and next scan the client code or choose with button “Select client”

Booking additional products:

With the selected client it is possible to book additional products. These products (for instance sugar, milkcups, potatoes, vegetables, meat and so on) are not directly attributable to a customer but booked on groupitems as additional costs. The transactions must be established if the products are picked from the storage.

If a client will pay the bill, then choose the concerning client, print the receipt if desired, with the “Printing” button, by cash paying use the modest calculator on the screen to fill in the cash paid by the customer in the CASH field and push the “REFUND” button. The change will be calculated and showed in the CHANGE field, taking into account the rounding, which is set in advance. The customer also can pay by a pin transaction. By typing a wrong number correct with “DEL” button. After payment is done press the “TRANSFER PAYED” button to make the necessary bookings and free the tables / seats for this customer. If no costs are made, it's also possible to make a “null” booking to free tables and seats on the main screen.

A notification bar is visible for displaying several notifications during operation.

A INFO button is available for information of the program.

The following documentation concerns description of the backend for administration reasons and is accessible with level 2 by pushing the “Administration” button.

The structure of the adminmenu:

Employees submenu

*New employee*

*View / change employee*

|                                      |   |
|--------------------------------------|---|
| Articles submenu                     | <i>Insert new articles</i><br><i>View / change articles</i><br><i>Booking loss articles</i><br><i>View loss articles</i>  |
| Article-groups lines – view / change |   |
| Purchase submenu                     | <i>Collecting purchases</i><br><i>Manual ordering</i><br><i>Unknown supplier ordering</i><br><i>Receiving / processing deliveries</i><br><i>Ordering suppliernumber suppliername</i><br><i>Ordering suppl...</i><br><i>To order yet - view</i><br><i>Ordered – view</i><br><i>All orders – view</i><br><i>Delivered orders - view</i> |
| Suppliers submenu                    | <i>Suppliers new</i><br><i>Suppliers view / change</i><br><i>Invoices suppliers /paying</i>   |
| Imports submenu                      | <i>Import new articles</i><br><i>Import price changes</i><br><i>Import expired articles</i><br><i>Import deliveries articles</i>  |
| Groupbuttons grouptext /color        |   |
| Payments view / pay                  |   |
| Parameters view / change             |   |
| Sales – view                         |   |
| Additional view                      |   |
| Turnover submenu – view              | <i>Daily gross turnover</i><br><i>Monthly gross turnover</i><br><i>Yearly gross turnover</i>  |
| Reprint purchase orders              |   |
| Reprint sales receipts               |   |

We will describe the menuitems with their purpose and possibilities.

### **Employee submenu:**

With the logon from barcode accesslevel 2 the “Administration” button is activated. With this button and submenu Employees it is possible to generate other barcodes for logon purposes.

The barcodefield will be generated as 5 random digits by the program. (The first 2 digits starts with 24 the 8th digit is a check number). The program will check and correct for duplicates. Access is default set on level 1, change if desired. If accesslevel is set to 0 processing is blocked for the employee.

The first name, last name and callname of the employee must be inserted.

The callname field will be printed on the saleslip, it's also saved in the sales table.

The barcodelabel is saved in folder . /Barcodes/Employees/ after inserting a new employee, a barcode can be printed for logon in the menuchoice View / change employee with the print button. Before printing remove the number under barcode for security reasons and replace by logon name. (For instance use application Paint)

By the menuchoice "View / change employee" click the first field of the list with employees to select.

### Articles submenu:

General remarks:

It is important to pay particular attention to the completion of the fields, for reasons of clarity and stock control.

Always fill in description (for purchase) and short description (for receipts and display text), and surely in the start-up phase the order-size and minimum stock. When the system builds a history of usage, the system calculate the items minimum stock and order-size

In the table articles, the columns minimum stock, category, order\_size, order\_status, order\_balance, annual\_consumption1 and annual-consumption2 are available for stock control.

We will explain the purpose of these columns.

The minimum\_stock column is used for purchasing, if  $\text{item\_stock} + \text{order\_balance} < \text{minimum\_stock}$  a orderline is generated. These lines are generated in the "Purchase submenu" Collecting purchases.

If the purchase orderlines are collected the field order\_status is set to False, so no further orders are generated until the products are delivered. The order-balance is increased with the ordered number. After delivery the field order\_status is reset to True, so the product is released for calculations of stock, order\_balance is reduced with the delivered number.

The column category determines the delivery time. The category runs from 3 days to 1 year in 8 steps and 1 category daily fresh products. The latter is outside the supply system and must be manual handled.

The calculation of the items is established by the Camp formula:

Camp formula:  $Q = \sqrt{2DF/HP}$

Stands for:

Q = Quantity

- D = Demand / year (table articles)
- F = Fixed Costs (order costs conversion costs) (from table params)
- H = Stock costs as a percentage of the price (from table params)
- P = Price of the product (from table articles)

The annual\_consumption is counted by the article usage in a year.

Even year annual\_consumption\_1

Odd year annual\_consumption\_2

By starting of a new year the oldest year of annual consumption is set to 0, so the counting restarts, with this column, so always the last year is preserved for calculation of stock.

You can influence the minimum stock and order size by changing the paramID 5 and 6 (Ordercosts and surcharge for interest and storage)

Columns description, short description, selling\_price and selling\_contents and their usage:

The column description is used for the product purchase. For instance a bottle Chardonnay white wine 2007 of 0.75 liter. The short description can be in this case Glass white wine.

The item\_price Euro 6.95. The selling\_price 5.00 Euro (1 glass). The selling\_price for the bottle 21.95. The selling\_contents is in this case 0.15 for the glass, and for the bottle 1. The selling by glass can be established with a button coupled to barcodenumber and with 0.15 as selling\_content. With selling a bottle the item can be scanned or pushed by button or both.

Articles:

By inserting articles 3 items are important. The checkbox manual, the checkbox additional and inserting articles generated or scanned.

The checkbox manual will be set, if the manager wants to control the ordersize. This is surely in the startup phase important. The orderlines will be generated, but the order-size can be adjusted.

The checkbox additional must be set, when the products are not direct assignable to the customer. For instance cleaning products, sugar, milkcups, cookies, potatoes, vegetables, meat and so on.

These products will be booked on the several article\_groups for further calculation.

By inserting articles it is possible to use a generated article by the system, or to use a scanned article product in the commercial range. The generated article is an EAN13 number starting with 28 (free, so no conflicts arise with commercial numbers), then 10 digits serial number and last a checksum number as a validity check. (usage for instance own products like maindish, desert, cup of coffee)

When a commercial number is wanted the generated number can be overruled in the last field.

Fill in all items, position the cursor in the last field and scan the product. The product is inserted without pushing the button, with the scanned code.

The other menu choices are for changing articles, booking loss articles, and view loss articles.

Loss articles are divided in obsolete, warehouse differences, damaged or shelf life.

A thumbnail picture can be showed in the articles base productlines. Place a picture as a png file 80 x 80 pixels in folder thumbs (use Paint for scaling and save as png) and set the path in the field thumbnail as ./thumbs/<name of picture> It is possible to make subfolders with picturegroups in the folder thumbs, for organise reasons.

### **Article-groups lines – view / change**

The article-group lines are group classification of products.

The group-lines are determined by the manager.

Up to 19 lines filled lines will be used by the program in a top down menu.

Click on the first field of the line from the list and change if desired.

### **Purchase submenu**

*Collecting orderlines.*

This menuchoice iterates the whole table articles and generate based on contents of the fields item\_stock, minimum\_stock, order\_balance, order\_status and category the orderlines.

The list is stored in the table purchase\_orderlines, with the clientnumber if known and also indicated whether the orderline should be ordered manual.

*Manual ordering*

Represents the products marked as manual\_ordering in the database.

The menuitem opens a list of productlines.

Click on the 1st field of listitem to order, fill in the number of products to order and print the order.

Follow this procedure for the whole list.

The ordered number and date of ordering are stored in the table purchase\_orderlines

*Unknown supplier ordering*

Represents the products with no supplier known in the articlebase.

The menuitem opens a list of productlines.

Click on the field of listitem to order, fill in the suppliernumber and print the order.

Follow this procedure for the whole list.

The ordered number and date of ordering and supplier are stored in the table purchase\_orderlines

The suppliernumber is also stored in the articles table.

*Ordering suppliernumber suppliername*

These lines are represented by suppliernumber + suppliername

The ordering is realised as a collection per supplier.

To order push the Print /Order button on the list per supplier.

An orderlist per supplier is printed.

Follow this procedure for all lines in this range.

The ordered number and date of ordering and supplier are stored in the table purchase\_orderlines

*Receiving / processing deliveries*

This menuline calls all orderlines.

By clicking on the first field of the listed items a form is showed, where the delivered number can be processed. The field order\_balance is reduced and the field order-status is reset in table articles

The delivered number is added and date of delivery is stored in the table purchase\_orderlines

Thurdermore choices for viewing list are available for information.

**Suppliers***Suppliers new*

The zip field is not coupled with check tables, because so many variations over the world exists.

A textform is included for country like requirements like VAT numbers, chamber of commerce numbers and so on (1000 positions possible)

*Suppliers view / change*

For changing items above.

*Invoices suppliers /paying*

These items are booked in table invoices after delivery.

The form includes a checkbox to check if invoice is received and approved to pay. The paydate is stored, the checkbox is disabled, the caption is changed in payed.

**Imports**

Imports are done by csv files. (most used import standard)

The separate item of the file field is default ',' and is stored as ascii code 44 in table params. Can be changed if the csv field gets another separator character.

The program determines if headings are present in the importfiles and skips the heading, if provided.

All the present files in the concerning folder will be treated in one go.

If the files are processed, they are moved to same subdirectory under ImportsDone.

Not imported files must be stored in folder ./forms/Imports under New, Prices, Expired and Deliveries for processing.

#### *Import new articles*

Articles that have to be added to the table articles

If errors occur – the errors are saved in a file catering\_import.log in your home directory (Windows: /users/<username> ,

Linux: /home/<username> )

#### *Import price changes*

Articles with changed prices. The item\_price is changed in table articles.

If errors occur – the errors are saved in a file catering\_import.log in your home directory (Windows: /users/<username> ,

Linux: /home/<username> )

#### *Import expired articles*

These articles must be removed. The article records in this file are deleted from table articles.

If errors occur – the errors are saved in a file catering\_import.log in your home directory (Windows: /users/<username> ,

Linux: /home/<username> )

#### *Import Deliveries articles*

Number of delivered products is increased by item\_stock in table articles, the order\_status is reset to True and the order\_balance is deducted by the delivered number.

In the purchase\_orderlines table the fields delivery and delivery\_date are updated.

#### **Remark by imports:**

It will be clear that imports are far more efficient than manual processing.

So it is worth the effort to ask your suppliers to operate with this importlists. Mind the layout of the files matches exactly.

#### **Groupbuttons and productbuttons**

For groupbuttons a menuitem is set.

A list of buttons is presented. Clicking on the first field of this list opens a groupbuttonform,

Insert or change the buttontext maximum 5 lines of 14 characters per line.

As administrator the buttonnumber and reference is showed on the button.

Besides the buttontext also the buttoncolor can be chosen. <https://htmlcolorcodes.com/> is a site where it's very easy to choose the right color with a slider and a cross movable with your mouse.

You see the hex color right copy and paste in the color field of the buttonform, don't forget to add # before the colorcode.

If no colorcode or wrong code is chosen the default color is applied #FFFFFF0.

#### **Productbuttons (900)**

As administrator the buttons change their text 1<sup>st</sup> line buttonnumber, 2<sup>nd</sup> line reference and 3<sup>rd</sup> line barcodenumber if applied. To change, push the button.

The productlist is showed. Choose a product by browsing. By clicking on the first field the buttonform of the clicked button opens.

Insert or change the buttontext maximum 4 lines of 14 characters per line.

Here it's possible to place a bullet on the 5<sup>th</sup> line for favorite products, by checking the checkbox.

A list of products is showed, browse to your desired product for the button, click on the first field and the buttonform shows.



Besides the buttontext also the buttoncolor can be chosen. <https://htmlcolorcodes.com/> is a site where it's very easy to choose the right color with a slider and a cross movable with your mouse. You see the hex code of the chosen color on the right above on the site, copy and paste the color in the field of the buttonform, don't forget to add # before the colorcode. If no colorcode or wrong code is chosen the default color is applied #FFFFFF0. For the productbuttons it may be recommended to preserve the first page of buttons for most sold items.

### **Payments – view / pay**

This are the payments for instances, for instance VAT payments.  
In the list click first field and then in the opened form check the checkbox to book the payment.  
The paydate is saved in the table payments.  
The list is also for viewing purposes.

### **Parameters view / change**

These are the parameters for the system. To change click the first field in the list.

Parameters:

VAT low: as a factor presented percentage change if desired

VAT high: as a factor presented percentage change if desired

VAT zero is hard coded in the program as it's always 0

CSV separator as ascii code (default 44) for import files, change if csv file separator change.

EVEN/ODD YEAR leave alone, for it is handled by the system.

ORDERCOSTS PURCHASE costs of administration and handling of 1 order – change if desired

STORAGE SURCHARGE as a factor presented percentage for surcharge stock (costs for storage and loss products)

The last two items influence also the minimum-stock and order-sizes.

CHANGE rounding. The rounding of cash payments by checkout sell.

### **Sales – view**

The viewing list of the realized sale orders.

### **Additional view**

The viewing list of the additional products, products not directly attributable to a customer.

### **Turnover submenu – view**

*Daily gross turnover*

Viewing daily total gross turnover + daily total VAT

Insert yyyy-mm-dd in the searchfield,

*Monthly gross turnover*

Viewing monthly total gross turnover + monthly total VAT

Insert yyyy-mm in the searchfield

*Yearly gross turnover*

Viewing yearly total gross turnover + yearly total VAT

Insert yyyy in the searchfield.

### **Reprint purchase orders**

Give a list of all produced purchase orders. Pick one and print.

### **Reprint sales receipts**

Give a list of all sales. Pick one and print.

For testing is a barcode sheet with logon codes provided in folder ./Barcodes/employees/

The barcodes for clients starts with 26 and are stored in folder ./Barcodes/clients/

Some Barcodes for products are stored in folder ./Barcodes/Articles

Three databases are provided in the installation folder.

One partly filled database as default,

One empty database to fill from scratch with your own propriety items.

One filled database with approximily 38000 items for testing purposes, but not assignable to catering.

### Database structure catering:

catering=# \d

| List of relations |                     |       |          |
|-------------------|---------------------|-------|----------|
| Schema            | Name                | Type  | Owner    |
| public            | additional          | table | postgres |
| public            | article_grouplines  | table | postgres |
| public            | articles            | table | postgres |
| public            | buttons             | table | postgres |
| public            | clients             | table | postgres |
| public            | employees           | table | postgres |
| public            | groupbuttons        | table | postgres |
| public            | invoices            | table | postgres |
| public            | loss                | table | postgres |
| public            | order_lines         | table | postgres |
| public            | params              | table | postgres |
| public            | payments            | table | postgres |
| public            | purchase_orderlines | table | postgres |
| public            | sales               | table | postgres |
| public            | suppliers           | table | postgres |
| public            | tables_layout       | table | postgres |

catering=# \d additional

| Table "public.additional" |                       |           |          |                       |
|---------------------------|-----------------------|-----------|----------|-----------------------|
| Column                    | Type                  | Collation | Nullable | Default               |
| addID                     | integer               |           | not null |                       |
| barcode                   | character varying(13) |           |          | ''::character varying |
| description               | character varying(13) |           |          | ''::character varying |
| item_price                | double precision      |           |          | 0                     |
| number                    | double precision      |           |          | 0                     |
| item_unit                 | character varying(16) |           |          | ''::character varying |
| article_group             | character varying(40) |           |          | ''::character varying |
| location_warehouse        | character varying(8)  |           |          | ''::character varying |

Indexes:

"additional\_pkey" PRIMARY KEY, btree ("addID")

catering=# \d article\_grouplines

| Table "public.article_grouplines" |                       |           |          |                       |
|-----------------------------------|-----------------------|-----------|----------|-----------------------|
| Column                            | Type                  | Collation | Nullable | Default               |
| lineID                            | integer               |           | not null | 0                     |
| grouplinetext                     | character varying(40) |           |          | ''::character varying |

Indexes:

"article\_grouplines\_pkey" PRIMARY KEY, btree ("lineID")

catering=# \d articles

| Table "public.articles" |                       |           |          |                           |
|-------------------------|-----------------------|-----------|----------|---------------------------|
| Column                  | Type                  | Collation | Nullable | Default                   |
| barcode                 | character varying(13) |           | not null |                           |
| description             | character varying(50) |           |          | ''::character varying     |
| item_price              | double precision      |           |          | 0                         |
| item_stock              | double precision      |           |          | 0                         |
| item_unit               | character varying(16) |           |          | ''::character varying     |
| minimum_stock           | double precision      |           |          | 0                         |
| order_size              | double precision      |           |          | 0                         |
| location_warehouse      | character varying(8)  |           |          | ''::character varying     |
| article_group           | character varying(40) |           |          | ''::character varying     |
| thumbnail               | character varying(50) |           |          | ''::character varying     |
| category                | integer               |           |          | 0                         |
| order_balance           | double precision      |           |          | 0                         |
| order_status            | boolean               |           |          | true                      |
| mutation_date           | character varying(10) |           |          | ''::character varying     |
| annual_consumption_1    | double precision      |           |          | 0                         |
| annual_consumption_2    | double precision      |           |          | 0                         |
| VAT                     | character varying(4)  |           |          | 'high'::character varying |
| short_descr             | character varying(15) |           |          | ''::character varying     |
| selling_price           | double precision      |           |          | 0                         |
| selling_contents        | double precision      |           |          | 0                         |
| additional              | integer               |           |          | 0                         |
| supplierID              | integer               |           |          | 0                         |
| ordering_manual         | integer               |           |          | 0                         |

Indexes:

"barcode\_pkey" PRIMARY KEY, btree (barcode)

"barcode\_idx" btree (barcode)

Referenced by:

TABLE "loss" CONSTRAINT "barcode\_fkey" FOREIGN KEY (barcode) REFERENCES articles(barcode)

catering=# \d buttons

| Table "public.buttons" |                       |           |          |                              |
|------------------------|-----------------------|-----------|----------|------------------------------|
| Column                 | Type                  | Collation | Nullable | Default                      |
| buttonID               | integer               |           | not null |                              |
| buttontext             | character varying(60) |           |          | ''::character varying        |
| barcode                | character varying(13) |           | not null | ''::character varying        |
| reference              | character varying(5)  |           |          | ''::character varying        |
| accent                 | integer               |           |          | 0                            |
| bg_color               | character varying(7)  |           |          | '#FFFFF0'::character varying |

Indexes:

"buttonID\_pkey" PRIMARY KEY, btree ("buttonID")



catering=# \d clients

| Table "public.clients" |                       |           |          |                       |
|------------------------|-----------------------|-----------|----------|-----------------------|
| Column                 | Type                  | Collation | Nullable | Default               |
| clientID               | integer               |           | not null |                       |
| employee               | character varying(20) |           |          | ''::character varying |
| barcode                | character varying(8)  |           |          | ''::character varying |

Indexes:

"clients\_pkey" PRIMARY KEY, btree ("clientID")

Referenced by:

TABLE "order\_lines" CONSTRAINT "clientID\_fkey" FOREIGN KEY ("clientID") REFERENCES clients("clientID")

catering=# \d employees

| Table "public.employees" |                       |           |          |                       |
|--------------------------|-----------------------|-----------|----------|-----------------------|
| Column                   | Type                  | Collation | Nullable | Default               |
| barcodeID                | character varying(8)  |           | not null |                       |
| firstname                | character varying(20) |           |          | ''::character varying |
| lastname                 | character varying(30) |           |          | ''::character varying |
| access                   | integer               |           |          | 1                     |
| callname                 | character varying(20) |           |          | ''::character varying |

Indexes:

"barcodeID\_pkey" PRIMARY KEY, btree ("barcodeID")

catering=# \d groupbuttons

| Table "public.groupbuttons" |                       |           |          |                              |
|-----------------------------|-----------------------|-----------|----------|------------------------------|
| Column                      | Type                  | Collation | Nullable | Default                      |
| groupID                     | integer               |           | not null | 0                            |
| reference                   | character varying(2)  |           |          | ''::character varying        |
| buttongrouptext             | character varying(60) |           |          | ''::character varying        |
| bg_color                    | character varying(7)  |           |          | '#FFFFFF'::character varying |

Indexes:

"groupbuttons\_pkey" PRIMARY KEY, btree ("groupID")

catering=# \d invoices

| Table "public.invoices" |                       |           |          |                       |
|-------------------------|-----------------------|-----------|----------|-----------------------|
| Column                  | Type                  | Collation | Nullable | Default               |
| invoiceID               | integer               |           | not null |                       |
| barcode                 | character varying(13) |           |          | ''::character varying |
| description             | character varying(50) |           |          | ''::character varying |
| delivery                | double precision      |           |          | 0                     |
| item_price              | double precision      |           |          | 0                     |
| supplierID              | integer               |           |          | 0                     |
| orderlineID             | integer               |           |          | 0                     |
| paydate                 | character varying(10) |           |          | ''::character varying |
| bookdate                | character varying(10) |           |          | ''::character varying |
| item_unit               | character varying(16) |           |          | ''::character varying |

Indexes:

"invoices\_pkey" PRIMARY KEY, btree ("invoiceID")

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catering=# \d loss
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| Table "public.loss" |                       |           |          |                       |
|---------------------|-----------------------|-----------|----------|-----------------------|
| Column              | Type                  | Collation | Nullable | Default               |
| lossID              | integer               |           | not null |                       |
| number              | double precision      |           |          | 0                     |
| category            | character varying(22) |           |          | ''::character varying |
| bookdate            | character varying(10) |           |          |                       |
| barcode             | character varying(13) |           |          |                       |

Indexes:

"lossID\_pkey" PRIMARY KEY, btree ("lossID")

"fki\_barcode\_fkey" btree (barcode)

Foreign-key constraints:

"barcode\_fkey" FOREIGN KEY (barcode) REFERENCES articles(barcode)

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catering=# \d order_lines
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| Table "public.order_lines" |                       |           |          |                       |
|----------------------------|-----------------------|-----------|----------|-----------------------|
| Column                     | Type                  | Collation | Nullable | Default               |
| ID                         | integer               |           | not null |                       |
| barcode                    | character varying(13) |           |          | ''::character varying |
| description                | character varying(40) |           |          | ''::character varying |
| short_descr                | character varying(15) |           |          | ''::character varying |
| number                     | double precision      |           |          | 0                     |
| item_price                 | double precision      |           |          | 0                     |
| sub_total                  | double precision      |           |          | 0                     |
| sub_vat                    | double precision      |           |          | 0                     |
| mutation_date              | character varying(10) |           |          | ''::character varying |
| callname                   | character varying(20) |           |          | ''::character varying |
| clientID                   | integer               |           |          | 0                     |

Indexes:

"tables\_accounts\_pkey" PRIMARY KEY, btree ("ID")

"clientID\_fkey" btree ("clientID")

```
catering=# \d params
```

| Table "public.params" |                       |           |          |                       |
|-----------------------|-----------------------|-----------|----------|-----------------------|
| Column                | Type                  | Collation | Nullable | Default               |
| paramID               | integer               |           | not null |                       |
| item                  | character varying(20) |           |          | ''::character varying |
| value                 | double precision      |           |          | 0                     |

Indexes:

"paramID\_pkey" PRIMARY KEY, btree ("paramID")



catering=# \d payments

| Table "public.payments" |                       |           |          |                       |
|-------------------------|-----------------------|-----------|----------|-----------------------|
| Column                  | Type                  | Collation | Nullable | Default               |
| payID                   | integer               |           | not null |                       |
| kind                    | character varying(25) |           |          | ''::character varying |
| amount                  | double precision      |           |          | 0                     |
| bookdate                | character varying(10) |           |          | ''::character varying |
| paydate                 | character varying(10) |           |          | ''::character varying |
| instance                | character varying(25) |           |          | ''::character varying |
| accountnumber           | character varying(25) |           |          | ''::character varying |
| ovorderID               | integer               |           |          | 0                     |
| basis                   | double precision      |           |          | 0                     |

Indexes:

"payID\_pkey" PRIMARY KEY, btree ("payID")

catering=# \d purchase\_orderlines

| Table "public.purchase_orderlines" |                       |           |          |                       |
|------------------------------------|-----------------------|-----------|----------|-----------------------|
| Column                             | Type                  | Collation | Nullable | Default               |
| orderlineID                        | integer               |           | not null |                       |
| barcode                            | character varying(13) |           |          | ''::character varying |
| description                        | character varying(50) |           |          | ''::character varying |
| item_price                         | double precision      |           |          | 0                     |
| item_unit                          | character varying(16) |           |          | ''::character varying |
| item_stock                         | double precision      |           |          | 0                     |
| minimum_stock                      | double precision      |           |          | 0                     |
| order_size                         | double precision      |           |          | 0                     |
| ordering_manual                    | integer               |           |          | 0                     |
| supplierID                         | integer               |           |          | 0                     |
| bookdate                           | character varying(10) |           |          | ''::character varying |
| ordered                            | double precision      |           |          | 0                     |
| order_date                         | character varying(10) |           |          | ''::character varying |
| delivery                           | double precision      |           |          | 0                     |
| delivery_date                      | character varying(10) |           |          | ''::character varying |

Indexes:

"purchase\_orderlines\_pkey" PRIMARY KEY, btree ("orderlineID")

catering=# \d sales

| Table "public.sales" |                       |           |          |                       |
|----------------------|-----------------------|-----------|----------|-----------------------|
| Column               | Type                  | Collation | Nullable | Default               |
| salesID              | integer               |           | not null |                       |
| receiptnumber        | integer               |           |          | 0                     |
| barcode              | character varying(13) |           |          | ''::character varying |
| description          | character varying(40) |           |          | ''::character varying |
| number               | double precision      |           |          | 0                     |
| item_price           | double precision      |           |          | 0                     |
| sub_total            | double precision      |           |          | 0                     |
| sub_vat              | double precision      |           |          | 0                     |
| callname             | character varying(20) |           |          | ''::character varying |
| mutation_date        | character varying(10) |           |          | ''::character varying |
| short_descr          | character varying(15) |           |          | ''::character varying |
| clientID             | integer               |           |          | 0                     |

Indexes:

"ID\_pkey" PRIMARY KEY, btree ("salesID")

catering=# \d suppliers

| Table "public.suppliers" |                         |           |          |                       |
|--------------------------|-------------------------|-----------|----------|-----------------------|
| Column                   | Type                    | Collation | Nullable | Default               |
| supplierID               | integer                 |           | not null | 0                     |
| company_name             | character varying(40)   |           |          | ''::character varying |
| street                   | character varying(40)   |           |          | ''::character varying |
| houzenumber              | character varying(14)   |           |          | ''::character varying |
| residence                | character varying(40)   |           |          | ''::character varying |
| telephone                | character varying(13)   |           |          | ''::character varying |
| email                    | character varying(200)  |           |          | ''::character varying |
| addition                 | character varying(1000) |           |          | ''::character varying |
| zipcode                  | character varying(7)    |           |          | ''::character varying |

Indexes:

"suppliers\_pkey" PRIMARY KEY, btree ("supplierID")

catering=# \d tables\_layout

| Table "public.tables_layout" |                       |           |          |                       |
|------------------------------|-----------------------|-----------|----------|-----------------------|
| Column                       | Type                  | Collation | Nullable | Default               |
| ID                           | integer               |           | not null |                       |
| occupied                     | integer               |           |          | 0                     |
| table_seat                   | character varying(4)  |           |          | ''::character varying |
| clientID                     | integer               |           |          | 0                     |
| callname                     | character varying(20) |           |          | ''::character varying |

Indexes:

"tables\_layout\_pkey" PRIMARY KEY, btree ("ID")

"fki\_clientID\_fkey" btree ("clientID")