

### Week03 - Testing Database

SQL to check the tables

Q1. Check that each table will display the output presented in the individual tables

Code	Expected Output (Comment)	Actual Output (Screenshot)
------	------------------------------	----------------------------

Select \*  
From  
customer;

All records  
display of  
'customer' entity.  
(10 records)

Server: 127.0.0.1 » Database: fastburgersnow » Table: customer

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Show query box

✓ Showing rows 0 - 9 (10 total, Query took 0.0011 seconds.)

`SELECT * FROM customer;`

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		customer_id	customer_surname	customer_firstname	customer_phone	customer_email
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	Smith	John	5551234	john.smith@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	2	Doe	Jane	5555678	jane.doe@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	Williams	David	5559012	david.williams@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	4	Lee	Sophie	5553456	sophie.lee@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	5	Brown	Michael	5557890	michael.brown@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	6	Garcia	Maria	5552345	maria.garcia@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	7	Taylor	Emily	5556789	emily.taylor@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	8	Martinez	Juan	5550123	juan.martinez@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	9	Anderson	Sarah	5554567	sarah.anderson@email.com
<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	10	Jones	James	5558901	james.jones@email.com

Select \*  
From  
order\_item;

All records  
display of  
'order\_item'  
entity.

Server: 127.0.0.1 » Database: fastburgersnow » Table: order\_item

Select \*  
From outlet;

All records  
display of 'outlet'  
entity.

Server: 127.0.0.1 » Database: fastburgersnow » Table: outlet

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operati](#)

✓ Showing rows 0 - 9 (10 total, Query took 0.0005 seconds.)

```
SELECT * FROM `outlet`
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

			outlet_id	outlet_suburb	outlet_phone	company_id	company_name
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	Chatswood	212345678	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	2	Parramatta	223456789	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	Bondi Junction	234567890	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	4	Newtown	245678901	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	5	Surry Hills	256789012	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	6	Strathfield	267890123	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	7	Darlinghurst	278901234	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	8	North Sydney	289012345	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	9	Mascot	290123456	1 FastBurgersNow
<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	10	Bankstown	201234567	1 FastBurgersNow

Select \* from  
payment;

All records display of  
'payment' entity.

Server: 127.0.0.1 » Database: fastburgersnow » Table: payment

Browse Structure SQL Search Insert Export Import Privileges Operations

Showing rows 0 - 9 (10 total, Query took 0.0002 seconds.)

SELECT \* FROM `payment`

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	payment_id	payment_amount	account_no	bsb_no	customer_customer_id
<input type="checkbox"/> Edit Copy Delete	1	100	12345678	064321	1
<input type="checkbox"/> Edit Copy Delete	2	200.5	87654321	123456	2
<input type="checkbox"/> Edit Copy Delete	3	50	98765432	654321	3
<input type="checkbox"/> Edit Copy Delete	4	150.75	45678901	246810	4
<input type="checkbox"/> Edit Copy Delete	5	75.25	23456789	135792	5
<input type="checkbox"/> Edit Copy Delete	6	300	34567890	098765	6
<input type="checkbox"/> Edit Copy Delete	7	125.5	56789012	975310	7
<input type="checkbox"/> Edit Copy Delete	8	175.25	78901234	864209	8
<input type="checkbox"/> Edit Copy Delete	9	80	90123456	753198	9
<input type="checkbox"/> Edit Copy Delete	10	225.75	01234567	642087	10

Select \* from staff;

All records display of 'staff' entity.

Server: 127.0.0.1 Database: fastburgersnow table: staff

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Showing rows 0 - 9 (10 total, Query took 0.0004 seconds)

SELECT \* FROM `staff`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

staff\_id

staff\_surname

staff\_firstname

outlet\_id

<input type="checkbox"/>	Edit  Copy  Delete	1	Smith	John	1
<input type="checkbox"/>	Edit  Copy  Delete	2	Johnson	Emily	2
<input type="checkbox"/>	Edit  Copy  Delete	3	Williams	James	3
<input type="checkbox"/>	Edit  Copy  Delete	4	Brown	Sophia	4
<input type="checkbox"/>	Edit  Copy  Delete	5	Garcia	Oliver	5
<input type="checkbox"/>	Edit  Copy  Delete	6	Davis	Isabella	6
<input type="checkbox"/>	Edit  Copy  Delete	7	Miller	Michael	7
<input type="checkbox"/>	Edit  Copy  Delete	8	Wilson	Ava	8
<input type="checkbox"/>	Edit  Copy  Delete	9	Jones	William	9
<input type="checkbox"/>	Edit  Copy  Delete	10	Taylor	Mia	10

Select \* from ordering;

All records display of 'ordering' entity.

Showing rows 0 - 9 (10 total, Query took 0.0007 seconds)

SELECT \* FROM `ordering`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

customer\_customer\_id

staff\_staff\_id

order\_item

order\_type

order\_time

order\_date

payment\_id

item\_no

<input type="checkbox"/>	Edit  Copy  Delete	1	1	Cheeseburger	Dine-in	0000-00-00 00:00:00	2023-05-11	1	1
<input type="checkbox"/>	Edit  Copy  Delete	2	3	French Fries	Takeaway	0000-00-00 00:00:00	2023-05-11	2	4
<input type="checkbox"/>	Edit  Copy  Delete	3	6	Coca-Cola	Dine-in	0000-00-00 00:00:00	2023-05-11	3	6
<input type="checkbox"/>	Edit  Copy  Delete	4	2	Double Bacon Burger	Takeaway	0000-00-00 00:00:00	2023-05-12	4	2
<input type="checkbox"/>	Edit  Copy  Delete	5	5	Sweet Potato Fries	Dine-in	0000-00-00 00:00:00	2023-05-12	5	5
<input type="checkbox"/>	Edit  Copy  Delete	6	9	Vanilla Ice Cream	Takeaway	0000-00-00 00:00:00	2023-05-12	6	10
<input type="checkbox"/>	Edit  Copy  Delete	7	7	Chocolate Brownie	Dine-in	0000-00-00 00:00:00	2023-05-13	7	9
<input type="checkbox"/>	Edit  Copy  Delete	8	4	Pepsi	Takeaway	0000-00-00 00:00:00	2023-05-13	8	7
<input type="checkbox"/>	Edit  Copy  Delete	9	10	Veggie Burger	Dine-in	0000-00-00 00:00:00	2023-05-13	9	3
<input type="checkbox"/>	Edit  Copy  Delete	10	8	Sprite	Takeaway	0000-00-00 00:00:00	2023-05-14	10	8

☐ Check all

With selected: Edit Copy Delete Export

Q2. Show the output from two of the adjacent tables in turn – that is orders and item; users and item

Code	Expected Output Output (Comment)	Actual Output (Screenshot)
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```
SELECT *  
FROM ordering  
JOIN order_item  
ON ordering.item_no =  
order_item.item_no;
```

;

Output of  
'ordering' and  
'order\_item'  
tables.  
(10 records)

`SELECT * FROM ordering JOIN order_item ON ordering.item_no = order_item.item_no;`

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

customer_customer_id	staff_staff_id	order_item	order_type	order_time	order_date	payment_id	item_no	item_no	item_type	item_name	quantity
1	1	Cheeseburger	Dine-in	0000-00-00 00:00:00	2023-05-11	1	1	1	Burger	Cheeseburger	2
2	3	French Fries	Takeaway	0000-00-00 00:00:00	2023-05-11	2	4	4	Fries	French Fries	4
3	6	Coca-Cola	Dine-in	0000-00-00 00:00:00	2023-05-11	3	6	6	Drink	Coca-Cola	2
4	2	Double Bacon Burger	Takeaway	0000-00-00 00:00:00	2023-05-12	4	2	2	Burger	Double Bacon Burger	1
5	5	Sweet Potato Fries	Dine-in	0000-00-00 00:00:00	2023-05-12	5	5	5	Fries	Sweet Potato Fries	2
6	9	Vanilla Ice Cream	Takeaway	0000-00-00 00:00:00	2023-05-12	6	10	10	Dessert	Vanilla Ice Cream	3
7	7	Chocolate Brownie	Dine-in	0000-00-00 00:00:00	2023-05-13	7	9	9	Dessert	Chocolate Brownie	2
8	4	Pepsi	Takeaway	0000-00-00 00:00:00	2023-05-13	8	7	7	Drink	Pepsi	1
9	10	Veggie Burger	Dine-in	0000-00-00 00:00:00	2023-05-13	9	3	3	Burger	Veggie Burger	3
10	8	Sprite	Takeaway	0000-00-00 00:00:00	2023-05-14	10	8	8	Drink	Sprite	1

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None



```
SELECT *
FROM customer
JOIN ordering
ON customer.customer_id =
ordering.customer_customer_id
JOIN order_item
ON ordering.item_no =
order_item.item_no;
```

Output of  
'customer' and  
'order\_item'.  
(10 records)

I Need to join an  
'ordering' entity  
to have access  
to "item\_no", so  
I can connect to  
them.

Database: restaurantrow - Table: customer

Showing rows 0 - 9 (10 total, Query took 0.0000 seconds.)

SELECT \* FROM customer JOIN ordering ON customer.customer\_id = ordering.customer\_customer\_id JOIN order\_item ON ordering.item\_no = order\_item.item\_no;

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

customer_id	customer_surname	customer_firstname	customer_phone	customer_email	customer_customer_id	staff_staff_id	order_item	order_type	order_time	order_date
1	Smith	John	5551234	john.smith@email.com	1	1	Cheeseburger	Dine-in	0000-00-00 00:00:00	2023-05-11
2	Doe	Jane	5555678	jane.doe@email.com	2	3	French Fries	Takeaway	0000-00-00 00:00:00	2023-05-11
3	Williams	David	5559012	david.williams@email.com	3	6	Coca-Cola	Dine-in	0000-00-00 00:00:00	2023-05-11
4	Lee	Sophie	5553456	sophie.lee@email.com	4	2	Double Bacon Burger	Takeaway	0000-00-00 00:00:00	2023-05-12
5	Brown	Michael	5557890	michael.brown@email.com	5	5	Sweet Potato Fries	Dine-in	0000-00-00 00:00:00	2023-05-12
6	Garcia	Maria	5552345	maria.garcia@email.com	6	9	Vanilla Ice Cream	Takeaway	0000-00-00 00:00:00	2023-05-12
7	Taylor	Emily	5556789	emily.taylor@email.com	7	7	Chocolate Brownie	Dine-in	0000-00-00 00:00:00	2023-05-13
8	Martinez	Juan	5550123	juan.martinez@email.com	8	4	Pepsi	Takeaway	0000-00-00 00:00:00	2023-05-13
9	Anderson	Sarah	5554567	sarah.anderson@email.com	9	10	Veggie Burger	Dine-in	0000-00-00 00:00:00	2023-05-13
10	Jones	James	5558901	james.jones@email.com	10	8	Sprite	Takeaway	0000-00-00 00:00:00	2023-05-14

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

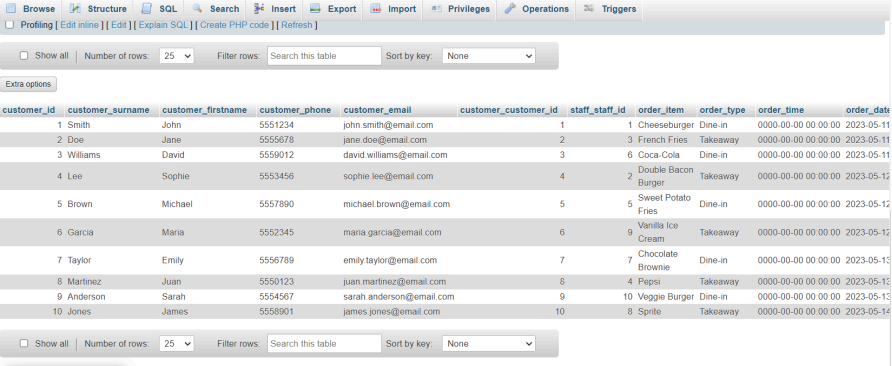
order_date	payment_id	item_no	item_no	item_type	item_name	quantity
2023-05-11	1	1	1	Burger	Cheeseburger	2
2023-05-11	2	4	4	Fries	French Fries	4
2023-05-11	3	6	6	Drink	Coca-Cola	2
2023-05-12	4	2	2	Burger	Double Bacon Burger	1
2023-05-12	5	5	5	Fries	Sweet Potato Fries	2
2023-05-12	6	10	10	Dessert	Vanilla Ice Cream	3
2023-05-13	7	9	9	Dessert	Chocolate Brownie	2
2023-05-13	8	7	7	Drink	Pepsi	1
2023-05-13	9	3	3	Burger	Veggie Burger	3
2023-05-14	10	8	8	Drink	Sprite	1

Q3. Connect all three tables and display the output that shows the output from these three tables – customer, ordering and item.

Code	Expected Output (Comment)	Actual Output (Screenshot)
------	------------------------------	----------------------------

```
SELECT *
FROM customer
JOIN ordering
ON customer.customer_id =
ordering.customer_customer
_id
JOIN order_item
ON ordering.item_no =
order_item.item_no;
```

All records display  
from 'customer',  
'ordering',  
'order\_item'.  
(10 records)



customer_id	customer_surname	customer_firstname	customer_phone	customer_email	customer_customer_id	staff_staff_id	order_item	order_type	order_time	order_date
1	Smith	John	5551234	john.smith@email.com	1	1	Cheeseburger	Dine-in	0000-00-00 00:00:00	2023-05-11
2	Doe	Jane	5555678	jane.doe@email.com	2	3	French Fries	Takeaway	0000-00-00 00:00:00	2023-05-11
3	Williams	David	5559012	david.williams@email.com	3	6	Coca-Cola	Dine-in	0000-00-00 00:00:00	2023-05-11
4	Lee	Sophie	5553456	sophie.lee@email.com	4	2	Double Bacon Burger	Takeaway	0000-00-00 00:00:00	2023-05-12
5	Brown	Michael	5557890	michael.brown@email.com	5	5	Sweet Potato Fries	Dine-in	0000-00-00 00:00:00	2023-05-12
6	Garcia	Maria	5552345	maria.garcia@email.com	6	9	Vanilla Ice Cream	Takeaway	0000-00-00 00:00:00	2023-05-12
7	Taylor	Emily	5556789	emily.taylor@email.com	7	7	Chocolate Brownie	Dine-in	0000-00-00 00:00:00	2023-05-13
8	Martinez	Juan	5550123	juan.martinez@email.com	8	4	Pepsi	Takeaway	0000-00-00 00:00:00	2023-05-13
9	Anderson	Sarah	5554567	sarah.anderson@email.com	9	10	Veggie Burger	Dine-in	0000-00-00 00:00:00	2023-05-13
10	Jones	James	5558901	james.jones@email.com	10	8	Sprite	Takeaway	0000-00-00 00:00:00	2023-05-14

Operations

Triggers

order_date	payment_id	item_no	item_no	item_type	item_name	quantity
00 2023-05-11	1	1	1	Burger	Cheeseburger	2
00 2023-05-11	2	4	4	Fries	French Fries	4
00 2023-05-11	3	6	6	Drink	Coca-Cola	2
00 2023-05-12	4	2	2	Burger	Double Bacon Burger	1
00 2023-05-12	5	5	5	Fries	Sweet Potato Fries	2
00 2023-05-12	6	10	10	Dessert	Vanilla Ice Cream	3
00 2023-05-13	7	9	9	Dessert	Chocolate Brownie	2
00 2023-05-13	8	7	7	Drink	Pepsi	1
00 2023-05-13	9	3	3	Burger	Veggie Burger	3
00 2023-05-14	10	8	8	Drink	Sprite	1

Q4. Create a query that will show the customer and items – so link these two

Answer:

```
SELECT DISTINCT * FROM customer, order_item;
```

Server: 127.0.0.1 » Database: fastburgersnow » Table: customer								
<a href="#">Browse</a> <a href="#">Structure</a> <a href="#">SQL</a> <a href="#">Search</a> <a href="#">Insert</a> <a href="#">Export</a> <a href="#">Import</a> <a href="#">Privileges</a> <a href="#">Operations</a> <a href="#">Triggers</a>								
customer_id	customer_surname	customer_firstname	customer_phone	customer_email	item_no	item_type	item_name	quantity
1	Smith	John	5551234	john.smith@email.com	1	Burger	Cheeseburger	2
2	Doe	Jane	5555678	jane.doe@email.com	1	Burger	Cheeseburger	2
3	Williams	David	5559012	david.williams@email.com	1	Burger	Cheeseburger	2
4	Lee	Sophie	5553456	sophie.lee@email.com	1	Burger	Cheeseburger	2
5	Brown	Michael	5557890	michael.brown@email.com	1	Burger	Cheeseburger	2
6	Garcia	Maria	5552345	maria.garcia@email.com	1	Burger	Cheeseburger	2
7	Taylor	Emily	5556789	emily.taylor@email.com	1	Burger	Cheeseburger	2
8	Martinez	Juan	5550123	juan.martinez@email.com	1	Burger	Cheeseburger	2
9	Anderson	Sarah	5554567	sarah.anderson@email.com	1	Burger	Cheeseburger	2
10	Jones	James	5558901	james.jones@email.com	1	Burger	Cheeseburger	2
1	Smith	John	5551234	john.smith@email.com	2	Burger	Double Bacon Burger	1
2	Doe	Jane	5555678	jane.doe@email.com	2	Burger	Double Bacon Burger	1
3	Williams	David	5559012	david.williams@email.com	2	Burger	Double Bacon Burger	1
4	Lee	Sophie	5553456	sophie.lee@email.com	2	Burger	Double Bacon Burger	1
5	Brown	Michael	5557890	michael.brown@email.com	2	Burger	Double Bacon Burger	1
6	Garcia	Maria	5552345	maria.garcia@email.com	2	Burger	Double Bacon Burger	1
7	Taylor	Emily	5556789	emily.taylor@email.com	2	Burger	Double Bacon Burger	1
8	Martinez	Juan	5550123	juan.martinez@email.com	2	Burger	Double Bacon Burger	1
9	Anderson	Sarah	5554567	sarah.anderson@email.com	2	Burger	Double Bacon Burger	1
10	Jones	James	5558901	james.jones@email.com	2	Burger	Double Bacon Burger	1
1	Smith	John	5551234	john.smith@email.com	3	Burger	Veggie Burger	3
2	Doe	Jane	5555678	jane.doe@email.com	3	Burger	Veggie Burger	3
3	Williams	David	5559012	david.williams@email.com	3	Burger	Veggie Burger	3
4	Lee	Sophie	5553456	sophie.lee@email.com	3	Burger	Veggie Burger	3
5	Brown	Michael	5557890	michael.brown@email.com	3	Burger	Veggie Burger	3

Q5. A manager wants to show a catalog of the items in the system – but only the following attributes showing: customer\_id, customer\_name, item\_price

ANSWER:

SELECT

customer.customer\_id,

CONCAT(customer.customer\_firstname, ' ', customer.customer\_surname) AS customer\_name,

order\_item.item\_name,

ordering.payment\_id AS item\_price

FROM

customer

JOIN

ordering

ON

customer.customer\_id = ordering.customer\_customer\_id

JOIN

order\_item

ON

ordering.item\_no = order\_item.item\_no;

```
SELECT customer.customer_id, CONCAT(customer.customer_firstname, ' ', customer.customer_surname) AS customer_name, ordering.item_no AS item_no, ordering.item_price AS item_price
FROM customer JOIN ordering ON customer.customer_id = ordering.customer_customer_id JOIN order_item ON ordering.item_no = order_item.item_no
```

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☐ Show all | Number of rows: 25 ▼ Filter rows:  Sort by key: None ▼

Extra options

customer_id	customer_name	item_name	item_price
1	John Smith	Cheeseburger	1
2	Jane Doe	French Fries	2
3	David Williams	Coca-Cola	3
4	Sophie Lee	Double Bacon Burger	4
5	Michael Brown	Sweet Potato Fries	5
6	Maria Garcia	Vanilla Ice Cream	6
7	Emily Taylor	Chocolate Brownie	7
8	Juan Martinez	Pepsi	8
9	Sarah Anderson	Veggie Burger	9
10	James Jones	Sprite	10

☐ Show all | Number of rows: 25 ▼ Filter rows:  Sort by key: None ▼

