

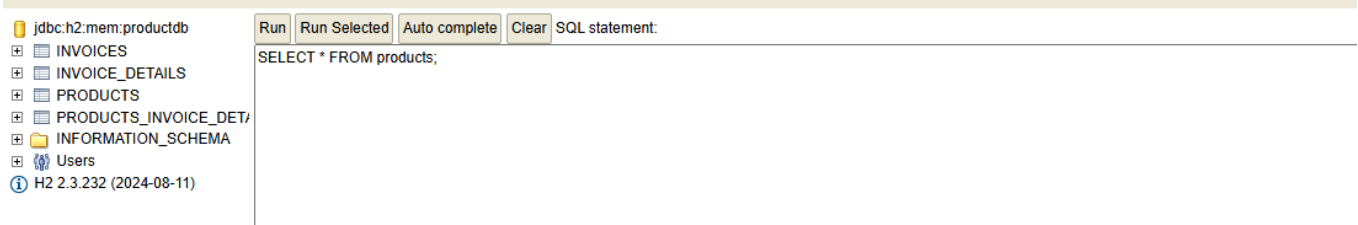
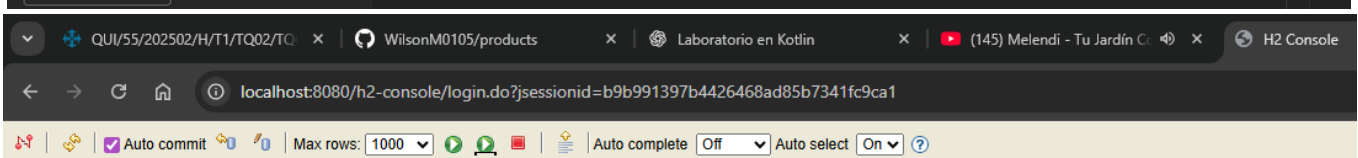
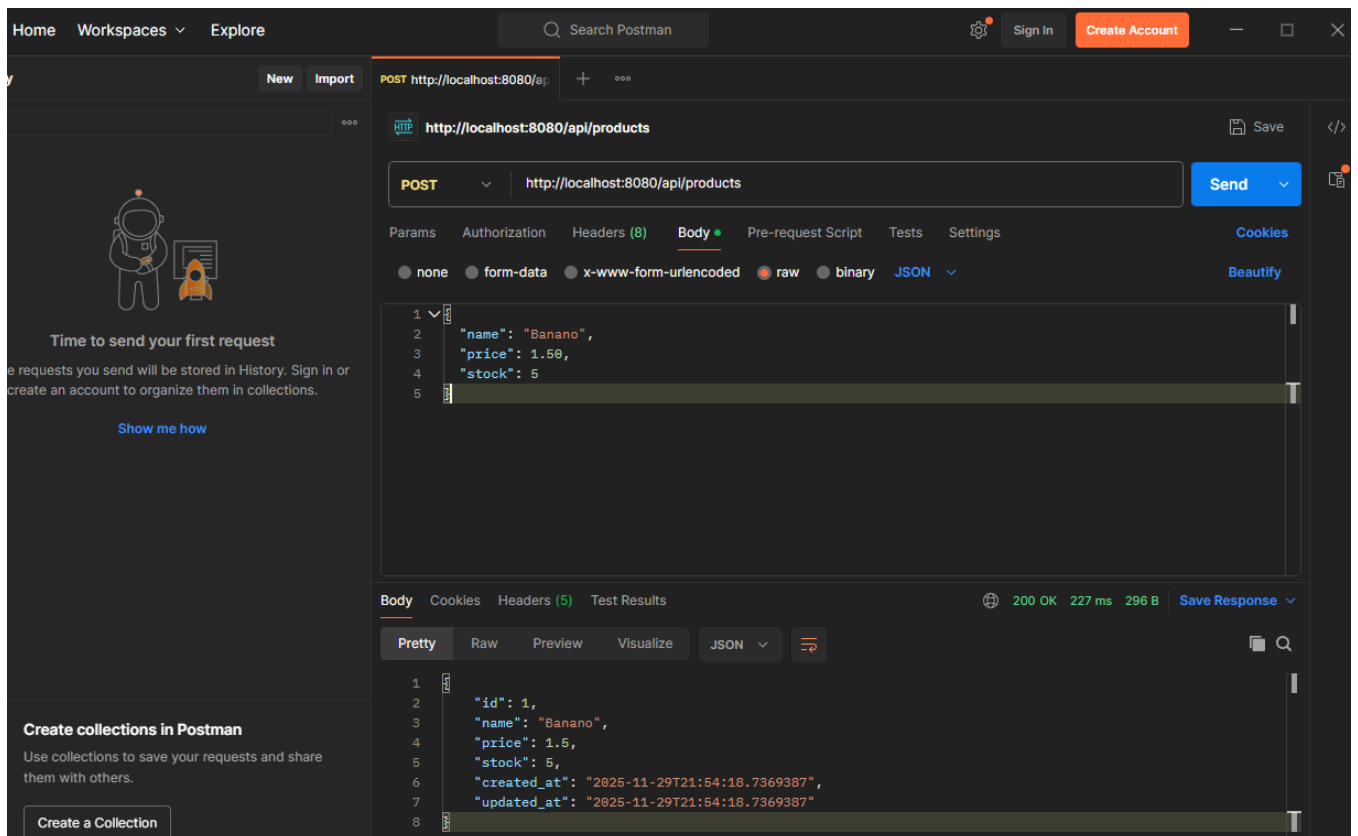
NOMBRE: Mites Montalvo Wilson Oswaldo

FECHA: 29/11/2025

MATERIA: Arquitectura Empresarial

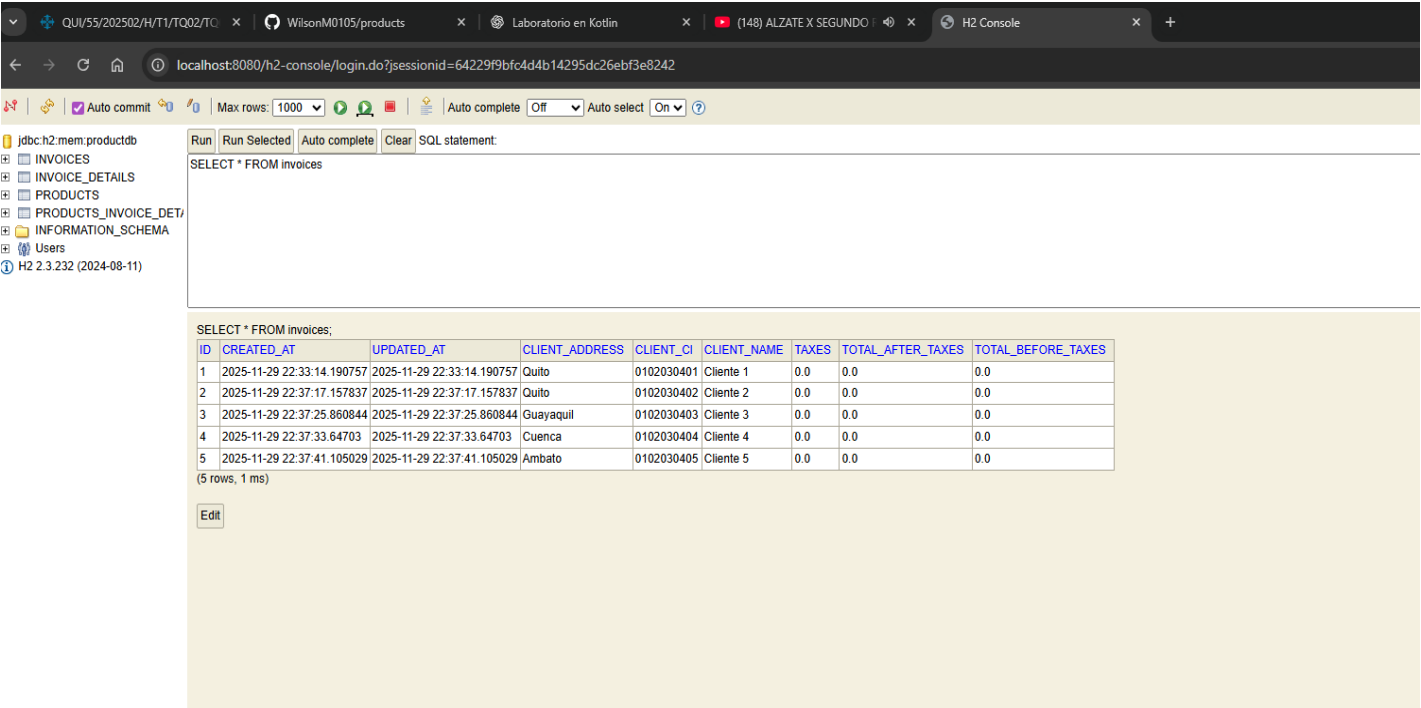
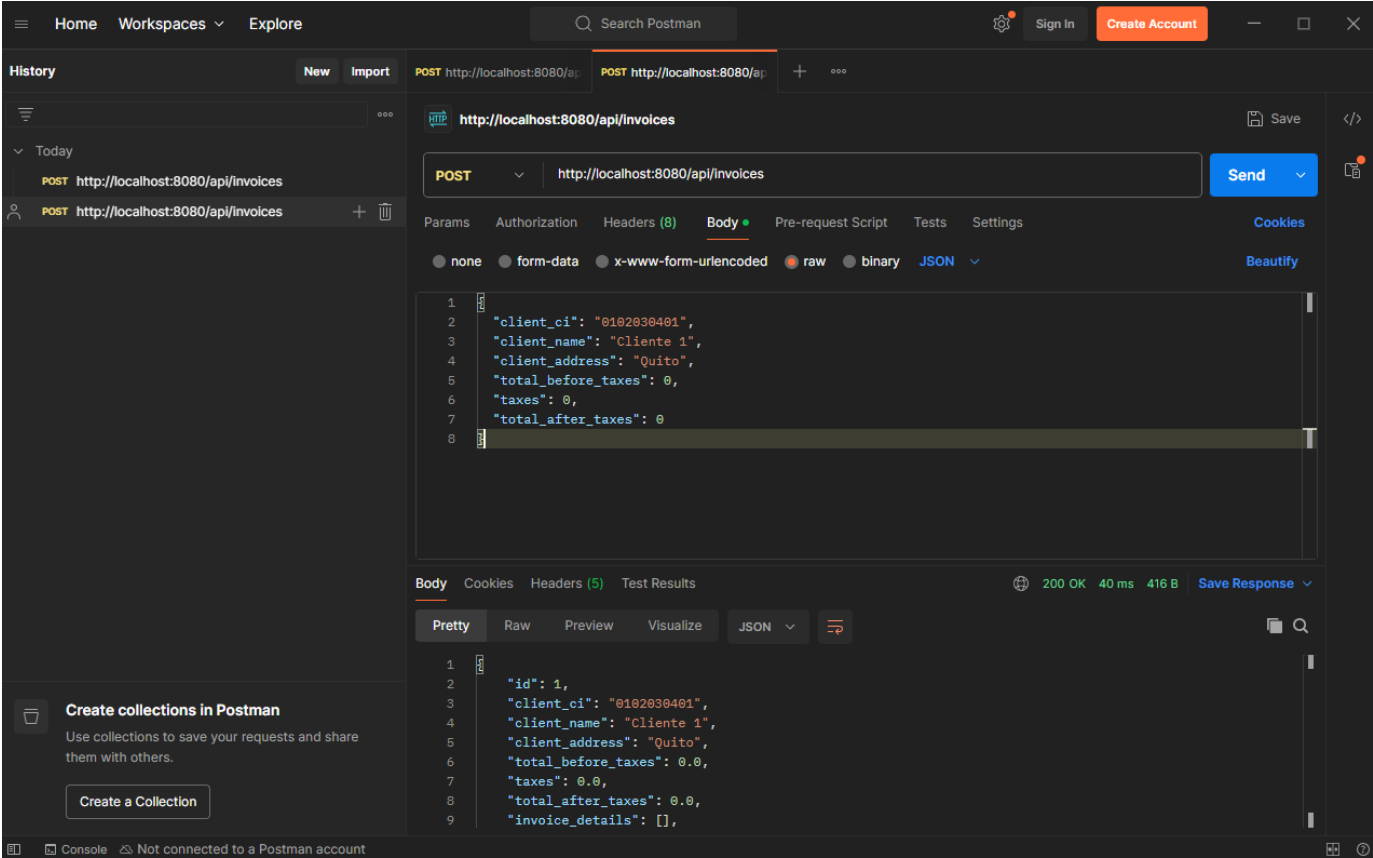
LABORATORIO: 009_relaciones_products

2. Creación de productos: Crear al menos 20 productos utilizando el endpoint correspondiente. Incluye capturas de postman de al menos una creación exitosa y de tu base de datos con los 20 productos creados



SELECT * FROM products;					
ID	CREATED_AT	UPDATED_AT	NAME	PRICE	STOCK
1	2025-11-29 21:54:18.736939	2025-11-29 21:54:18.736939	Banano	1.5	5
2	2025-11-29 21:58:02.147866	2025-11-29 21:58:02.147866	Manzana	0.75	9
3	2025-11-29 22:01:38.099411	2025-11-29 22:01:38.099411	Pera	0.8	7
4	2025-11-29 22:01:48.200603	2025-11-29 22:01:48.200603	Naranja	0.6	5
5	2025-11-29 22:01:56.911228	2025-11-29 22:01:56.911228	Uva	2.0	9
6	2025-11-29 22:02:06.086581	2025-11-29 22:02:06.086581	Sandía	3.5	4
7	2025-11-29 22:02:13.389986	2025-11-29 22:02:13.389986	Melón	3.25	6
8	2025-11-29 22:02:21.283866	2025-11-29 22:02:21.283866	Durazno	1.75	3
9	2025-11-29 22:02:30.955136	2025-11-29 22:02:30.955136	Ciruela	1.65	2
10	2025-11-29 22:02:41.673108	2025-11-29 22:02:41.673618	Mango	1.9	9
11	2025-11-29 22:02:50.416863	2025-11-29 22:02:50.416863	Piña	2.4	5
12	2025-11-29 22:03:00.752797	2025-11-29 22:03:00.752797	Coco	2.75	7
13	2025-11-29 22:03:07.733213	2025-11-29 22:03:07.733213	Frutilla	2.1	8
14	2025-11-29 22:03:16.140178	2025-11-29 22:03:16.140178	Kiwi	1.95	4
15	2025-11-29 22:03:22.17885	2025-11-29 22:03:22.17885	Papaya	1.3	6
16	2025-11-29 22:03:28.548533	2025-11-29 22:03:28.548533	Guavaba	0.95	5

3. Creación de facturas: Crear 5 facturas, cada una asociada a 2 productos. Adjunta capturas de postman de al menos una creación exitosa (invoice e invoice_detail). Así como también una captura de tu base de datos.



HomeWorkspacesExplore

Search Postman

Sign InCreate Account

History

NewImport

POST http://localhost:8080/api/invoice-details

POST http://localhost:8080/api/invoice-details

POST http://localhost:8080/api/invoice-details

POST http://localhost:8080/api/invoice-details

POST http://localhost:8080/api/invoice-details

POST http://localhost:8080/api/invoice-details

Create collections in Postman

Use collections to save your requests and share them with others.

Create a Collection

http://localhost:8080/api/invoice-details

Save

</>

POST http://localhost:8080/api/invoice-details

Send

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-datax-www-form-urlencodedrawbinaryJSON

Beautify

1 {
2 "product_id": 1,
3 "invoice_id": 1
4 }
5
6
7 "product_id": 2,
8 "invoice_id": 1
9 }

BodyCookiesHeaders (5)Test Results

200 OK7 ms419 BSave Response

PrettyRawPreviewVisualizeJSON

1 {
2 "id": 4,
3 "total_price": 0.0,
4 "product": {
5 "id": 2,
6 "name": "Manzana",
7 "price": 0.75,
8 "stock": 9,
9 "created_at": "2025-11-29T21:58:02.147866",

QUI/55/202502/H/T1/TQ02/TCWilsonM0105/productsLaboratorio en Kotlin(148) YA ME CANSE - ALZATEH2 Console

localhost:8080/h2-console/login.do?sessionId=64229f9bfc4d4b14295dc26ebf3e8242

Auto commitAuto completeOffAuto selectOn

jdbc:h2:mem:productdb

INVOICES

INVOICE_DETAILS

PRODUCTS

PRODUCTS_INVOICE_DET

INFORMATION_SCHEMA

Users

H2 2.3.232 (2024-08-11)

RunRun SelectedAuto completeClear

SQL statement:

SELECT * FROM invoice_details

SELECT * FROM invoice_details;

ID	CREATED_AT	UPDATED_AT	TOTAL_PRICE	INVOICE_ID	PRODUCT_ID
3	2025-11-29 22:53:30.108585	2025-11-29 22:53:30.108585	0.0	1	1
4	2025-11-29 22:53:49.740286	2025-11-29 22:53:49.740286	0.0	1	2
5	2025-11-29 22:58:17.840319	2025-11-29 22:58:17.840319	0.0	2	3
6	2025-11-29 22:58:27.460382	2025-11-29 22:58:27.460382	0.0	2	4
7	2025-11-29 22:58:37.960332	2025-11-29 22:58:37.960332	0.0	3	5
8	2025-11-29 22:58:45.009027	2025-11-29 22:58:45.009027	0.0	3	6
9	2025-11-29 22:58:52.54749	2025-11-29 22:58:52.54749	0.0	4	7
10	2025-11-29 22:58:58.872936	2025-11-29 22:58:58.872936	0.0	4	8
11	2025-11-29 22:59:06.517356	2025-11-29 22:59:06.517356	0.0	5	9
12	2025-11-29 22:59:18.792633	2025-11-29 22:59:18.792633	0.0	5	10

(10 rows, 1 ms)

4. Consulta de las facturas. 5 capturas, una por factura creada con al menos dos productos cada una.

```
3      "id": 1,
4      "client_ci": "0102030401",
5      "client_name": "Cliente 1",
6      "client_address": "Quito",
7      "total_before_taxes": 0.0,
8      "taxes": 0.0,
9      "total_after_taxes": 0.0,
10     "invoice_details": [
11         {
12             "id": 3,
13             "total_price": 0.0,
14             "product": {
15                 "id": 1,
16                 "name": "Banano",
17                 "price": 1.5,
18                 "stock": 5,
19                 "created_at": "2025-11-29T21:54:18.736939",
20                 "updated_at": "2025-11-29T21:54:18.736939"
21             },
22             "created_at": "2025-11-29T22:53:30.108585",
23             "updated_at": "2025-11-29T22:53:30.108585"
24         },
25         {
26             "id": 4,
27             "total_price": 0.0,
28             "product": {
29                 "id": 2,
30                 "name": "Manzana",
31                 "price": 0.75,
32                 "stock": 9,
33                 "created_at": "2025-11-29T21:58:02.147866",
34                 "updated_at": "2025-11-29T21:58:02.147866"
35             },
36             "created_at": "2025-11-29T22:53:49.740286",
37             "updated_at": "2025-11-29T22:53:49.740286"
38         }
39     ],
40     "created_at": "2025-11-29T22:33:14.190757",
41     "updated_at": "2025-11-29T22:33:14.190757"
```

```
44     "id": 2,
45     "client_ci": "0102030402",
46     "client_name": "Cliente 2",
47     "client_address": "Quito",
48     "total_before_taxes": 0.0,
49     "taxes": 0.0,
50     "total_after_taxes": 0.0,
51     "invoice_details": [
52         {
53             "id": 5,
54             "total_price": 0.0,
55             "product": {
56                 "id": 3,
57                 "name": "Pera",
58                 "price": 0.8,
59                 "stock": 7,
60                 "created_at": "2025-11-29T22:01:38.099411",
61                 "updated_at": "2025-11-29T22:01:38.099411"
62             },
63             "created_at": "2025-11-29T22:58:17.840319",
64             "updated_at": "2025-11-29T22:58:17.840319"
65         },
66         {
67             "id": 6,
68             "total_price": 0.0,
69             "product": {
70                 "id": 4,
71                 "name": "Naranja",
72                 "price": 0.6,
73                 "stock": 5,
74                 "created_at": "2025-11-29T22:01:48.200603",
75                 "updated_at": "2025-11-29T22:01:48.200603"
76             },
77             "created_at": "2025-11-29T22:58:27.460382",
78             "updated_at": "2025-11-29T22:58:27.460382"
79         }
80     ],
81     "created_at": "2025-11-29T22:37:17.157837",
82     "updated_at": "2025-11-29T22:37:17.157837"
```

```
85     "id": 3,  
86     "client_ci": "0102030403",  
87     "client_name": "Cliente 3",  
88     "client_address": "Guayaquil",  
89     "total_before_taxes": 0.0,  
90     "taxes": 0.0,  
91     "total_after_taxes": 0.0,  
92     "invoice_details": [  
93         {  
94             "id": 7,  
95             "total_price": 0.0,  
96             "product": {  
97                 "id": 5,  
98                 "name": "Uva",  
99                 "price": 2.0,  
100                "stock": 9,  
101                "created_at": "2025-11-29T22:01:56.911228",  
102                "updated_at": "2025-11-29T22:01:56.911228"  
103            },  
104            "created_at": "2025-11-29T22:58:37.960332",  
105            "updated_at": "2025-11-29T22:58:37.960332"  
106        },  
107        {  
108            "id": 8,  
109            "total_price": 0.0,  
110            "product": {  
111                "id": 6,  
112                "name": "Sandía",  
113                "price": 3.5,  
114                "stock": 4,  
115                "created_at": "2025-11-29T22:02:06.086581",  
116                "updated_at": "2025-11-29T22:02:06.086581"  
117            },  
118            "created_at": "2025-11-29T22:58:45.009027",  
119            "updated_at": "2025-11-29T22:58:45.009027"  
120        }  
121    ],  
122     "created_at": "2025-11-29T22:37:25.860844",  
123     "updated_at": "2025-11-29T22:37:25.860844"
```

```
126     "id": 4,  
127     "client_ci": "0102030404",  
128     "client_name": "Cliente 4",  
129     "client_address": "Cuenca",  
130     "total_before_taxes": 0.0,  
131     "taxes": 0.0,  
132     "total_after_taxes": 0.0,  
133     "invoice_details": [  
134         {  
135             "id": 9,  
136             "total_price": 0.0,  
137             "product": {  
138                 "id": 7,  
139                 "name": "Melón",  
140                 "price": 3.25,  
141                 "stock": 6,  
142                 "created_at": "2025-11-29T22:02:13.389986",  
143                 "updated_at": "2025-11-29T22:02:13.389986"  
144             },  
145             "created_at": "2025-11-29T22:58:52.54749",  
146             "updated_at": "2025-11-29T22:58:52.54749"  
147         },  
148         {  
149             "id": 10,  
150             "total_price": 0.0,  
151             "product": {  
152                 "id": 8,  
153                 "name": "Durazno",  
154                 "price": 1.75,  
155                 "stock": 3,  
156                 "created_at": "2025-11-29T22:02:21.283866",  
157                 "updated_at": "2025-11-29T22:02:21.283866"  
158             },  
159             "created_at": "2025-11-29T22:58:58.872936",  
160             "updated_at": "2025-11-29T22:58:58.872936"  
161         }  
162     ],  
163     "created_at": "2025-11-29T22:37:33.64703",  
164     "updated at": "2025-11-29T22:37:33.64703"
```

```

167     "id": 5,
168     "client_ci": "0102030405",
169     "client_name": "Cliente 5",
170     "client_address": "Ambato",
171     "total_before_taxes": 0.0,
172     "taxes": 0.0,
173     "total_after_taxes": 0.0,
174     "invoice_details": [
175         {
176             "id": 11,
177             "total_price": 0.0,
178             "product": {
179                 "id": 9,
180                 "name": "Ciruela",
181                 "price": 1.65,
182                 "stock": 2,
183                 "created_at": "2025-11-29T22:02:30.955136",
184                 "updated_at": "2025-11-29T22:02:30.955136"
185             },
186             "created_at": "2025-11-29T22:59:06.517356",
187             "updated_at": "2025-11-29T22:59:06.517356"
188         },
189         {
190             "id": 12,
191             "total_price": 0.0,
192             "product": {
193                 "id": 10,
194                 "name": "Mango",
195                 "price": 1.9,
196                 "stock": 9,
197                 "created_at": "2025-11-29T22:02:41.673108",
198                 "updated_at": "2025-11-29T22:02:41.673618"
199             },
200             "created_at": "2025-11-29T22:59:18.792633",
201             "updated_at": "2025-11-29T22:59:18.792633"
202         }
203     ],
204     "created_at": "2025-11-29T22:37:41.105029",
205     "updated_at": "2025-11-29T22:37:41.105029"

```

Se adjuntaron las 5 capturas correspondientes de cada invoices, con 1 cliente teniendo 2 productos asignados a cada una de sus facturas como corresponda.