NOMBRE: Mites Montalvo Wilson Oswaldo   **FECHA:** 29/11/2025
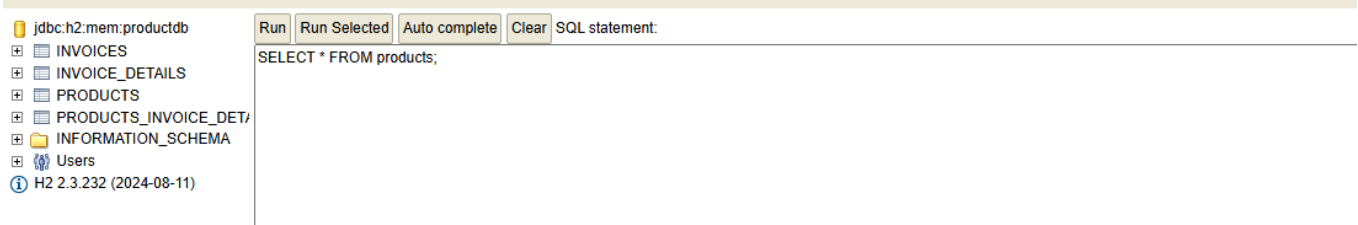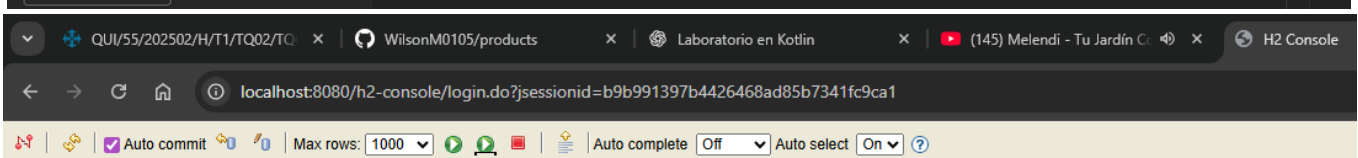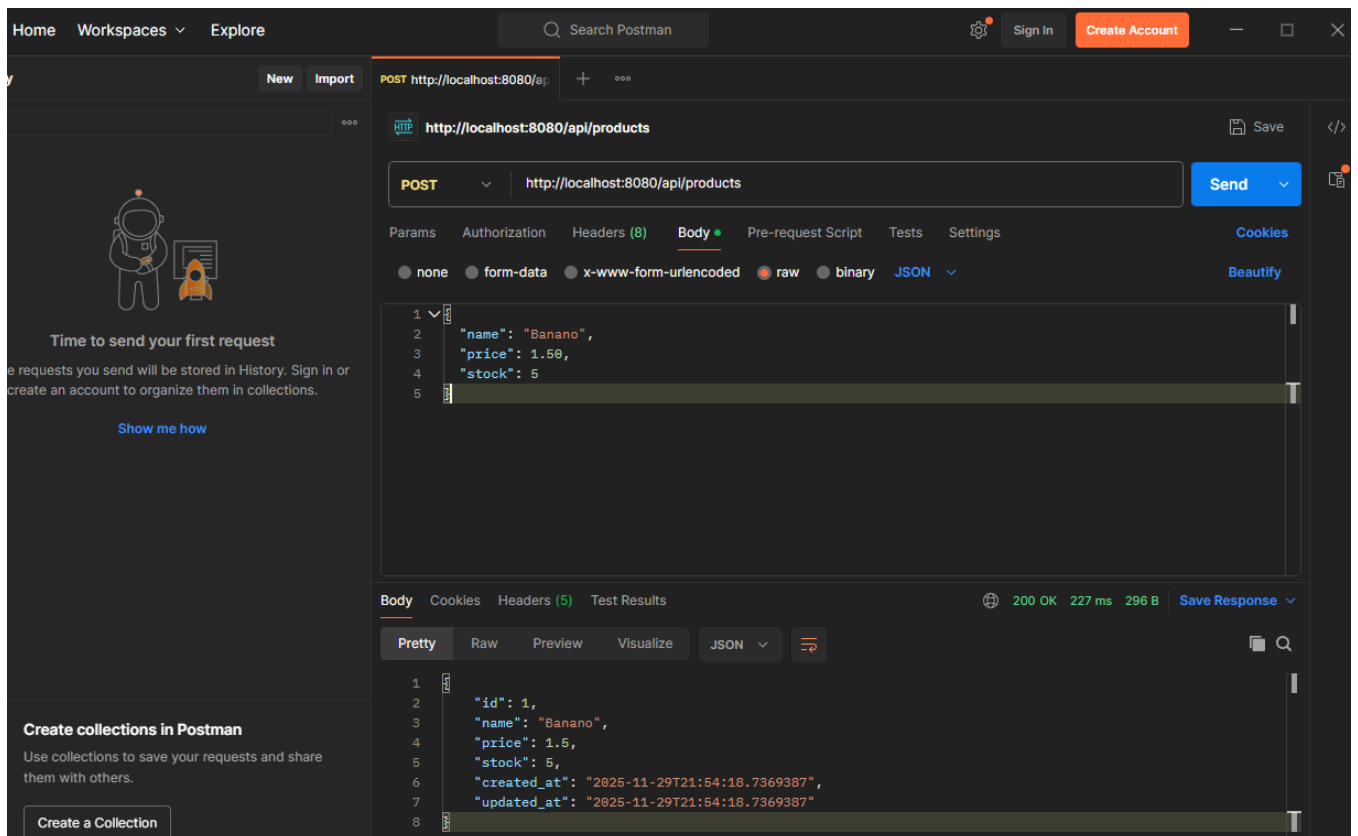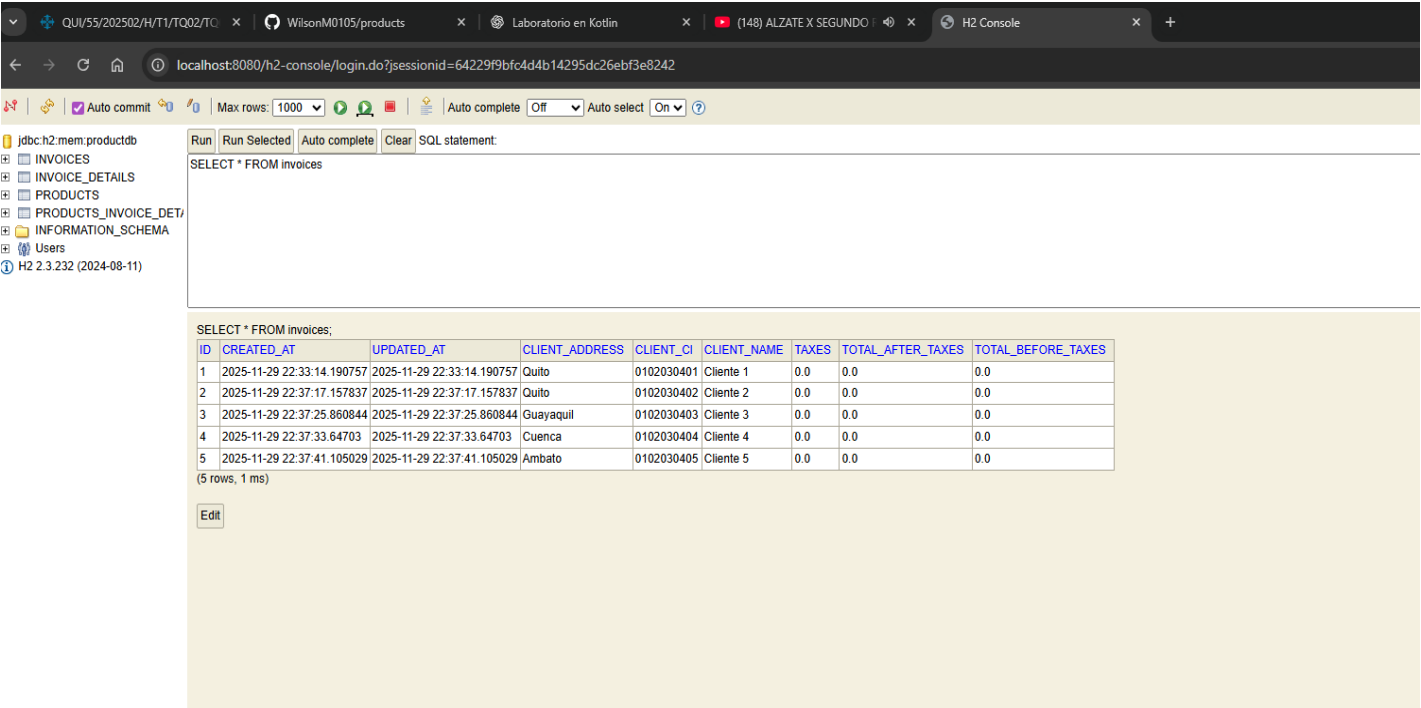
MATERIA: Arquitectura Empresarial

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

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.

H2 Console Window

QUI/55/202502/H/T1/TQ02/TQ | WilsonM0105/products | Laboratorio en Kotlin | (148) YA ME CANSE - ALZATE - | H2 Console

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

Auto commit | Max rows: 1000 | Auto complete Off | Auto select On

Run | Run Selected | Auto complete | Clear | SQL statement:

- jdbc:h2:mem:productdb
- INVOICES
- INVOICE_DETAILS
- PRODUCTS
- PRODUCTS_INVOICE_DET/
- INFORMATION_SCHEMA
- Users
- H2 2.3.232 (2024-08-11)

```
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"
```

```json
            "id": 2,
        "client_ci": "0102030402",
        "client_name": "Cliente 2",
        "client_address": "Quito",
        "total_before_taxes": 0.0,
        "taxes": 0.0,
        "total_after_taxes": 0.0,
        "invoice_details": [
            {
                "id": 5,
                "total_price": 0.0,
                "product": {
                    "id": 3,
                    "name": "Pera",
                    "price": 0.8,
                    "stock": 7,
                    "created_at": "2025-11-29T22:01:38.099411",
                    "updated_at": "2025-11-29T22:01:38.099411"
                },
                "created_at": "2025-11-29T22:58:17.840319",
                "updated_at": "2025-11-29T22:58:17.840319"
            },
            {
                "id": 6,
                "total_price": 0.0,
                "product": {
                    "id": 4,
                    "name": "Naranja",
                    "price": 0.6,
                    "stock": 5,
                    "created_at": "2025-11-29T22:01:48.200603",
                    "updated_at": "2025-11-29T22:01:48.200603"
                },
                "created_at": "2025-11-29T22:58:27.460382",
                "updated_at": "2025-11-29T22:58:27.460382"
            }
        ],
        "created_at": "2025-11-29T22:37:17.157837",
        "updated_at": "2025-11-29T22:37:17.157837"
```

```json
        "id": 3,
        "client_ci": "0102030403",
        "client_name": "Cliente 3",
        "client_address": "Guayaquil",
        "total_before_taxes": 0.0,
        "taxes": 0.0,
        "total_after_taxes": 0.0,
        "invoice_details": [
            {
                "id": 7,
                "total_price": 0.0,
                "product": {
                    "id": 5,
                    "name": "Uva",
                    "price": 2.0,
                    "stock": 9,
                    "created_at": "2025-11-29T22:01:56.911228",
                    "updated_at": "2025-11-29T22:01:56.911228"
                },
                "created_at": "2025-11-29T22:58:37.960332",
                "updated_at": "2025-11-29T22:58:37.960332"
            },
            {
                "id": 8,
                "total_price": 0.0,
                "product": {
                    "id": 6,
                    "name": "Sandía",
                    "price": 3.5,
                    "stock": 4,
                    "created_at": "2025-11-29T22:02:06.086581",
                    "updated_at": "2025-11-29T22:02:06.086581"
                },
                "created_at": "2025-11-29T22:58:45.009027",
                "updated_at": "2025-11-29T22:58:45.009027"
            }
        ],
        "created_at": "2025-11-29T22:37:25.860844",
        "updated_at": "2025-11-29T22:37:25.860844"
```

```json
        "id": 4,
        "client_ci": "0102030404",
        "client_name": "Cliente 4",
        "client_address": "Cuenca",
        "total_before_taxes": 0.0,
        "taxes": 0.0,
        "total_after_taxes": 0.0,
        "invoice_details": [
            {
                "id": 9,
                "total_price": 0.0,
                "product": {
                    "id": 7,
                    "name": "Melón",
                    "price": 3.25,
                    "stock": 6,
                    "created_at": "2025-11-29T22:02:13.389986",
                    "updated_at": "2025-11-29T22:02:13.389986"
                },
                "created_at": "2025-11-29T22:58:52.54749",
                "updated_at": "2025-11-29T22:58:52.54749"
            },
            {
                "id": 10,
                "total_price": 0.0,
                "product": {
                    "id": 8,
                    "name": "Durazno",
                    "price": 1.75,
                    "stock": 3,
                    "created_at": "2025-11-29T22:02:21.283866",
                    "updated_at": "2025-11-29T22:02:21.283866"
                },
                "created_at": "2025-11-29T22:58:58.872936",
                "updated_at": "2025-11-29T22:58:58.872936"
            }
        ],
        "created_at": "2025-11-29T22:37:33.64703",
        "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.