



PICCOLING

R E S T A U R A N T

Specialist in delicious Food



OUR BEST CHEF



ISABELLA
PÉREZ



LUZ ANGELA
CARABALI



NICOLAS
ZAPATA



PROBLEMA



Desafíos en la industria: congestión en la toma de pedidos debido a interfaz poco eficiente, falta de organización en la cocina y atención al cliente, y gestión ineficiente de la base de datos de productos y usuarios.

Impacto: demoras en la entrega de alimentos, baja calidad de servicio y deterioro de la reputación del restaurante.

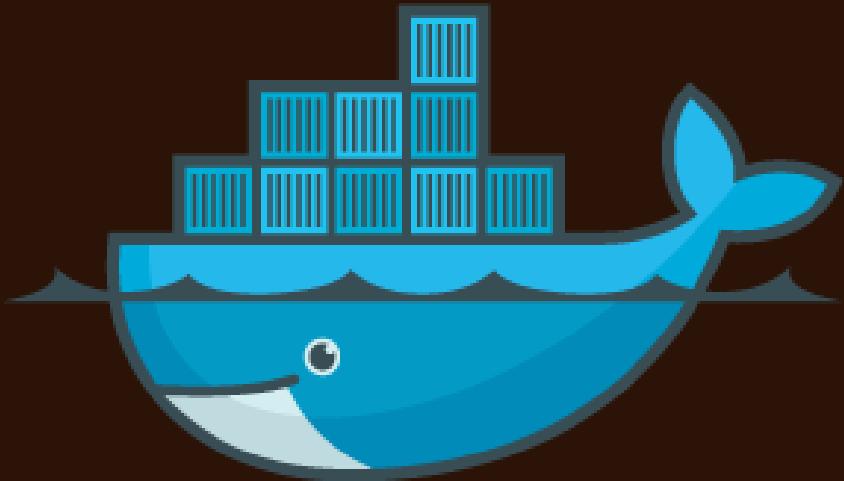
SELECCION DATASET

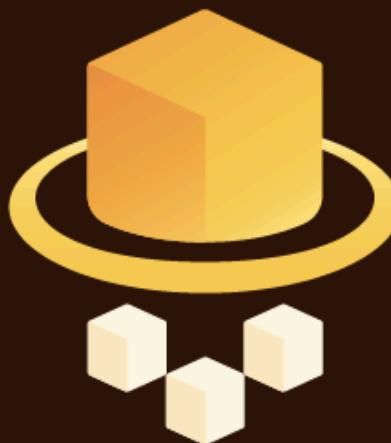
- Fuentes de Datos: Sitios web de restaurantes y suministros de bases de datos.
- Criterios de Selección: Nombre del plato y precio como mínimo.
- Validación y Limpieza: Eliminación de duplicados y corrección de errores.
- Tamaño del Dataset: Amplio número de registros.



ALTERNATIVAS DE SOLUCIÓN

EMPAQUETADO

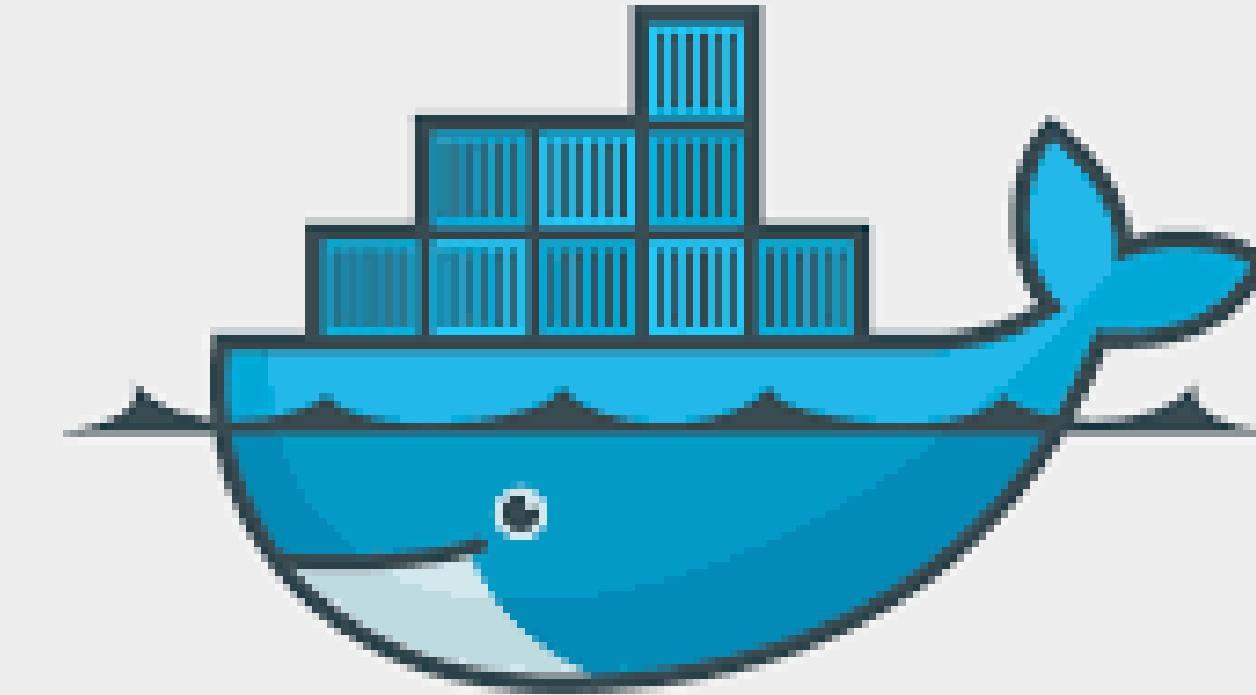


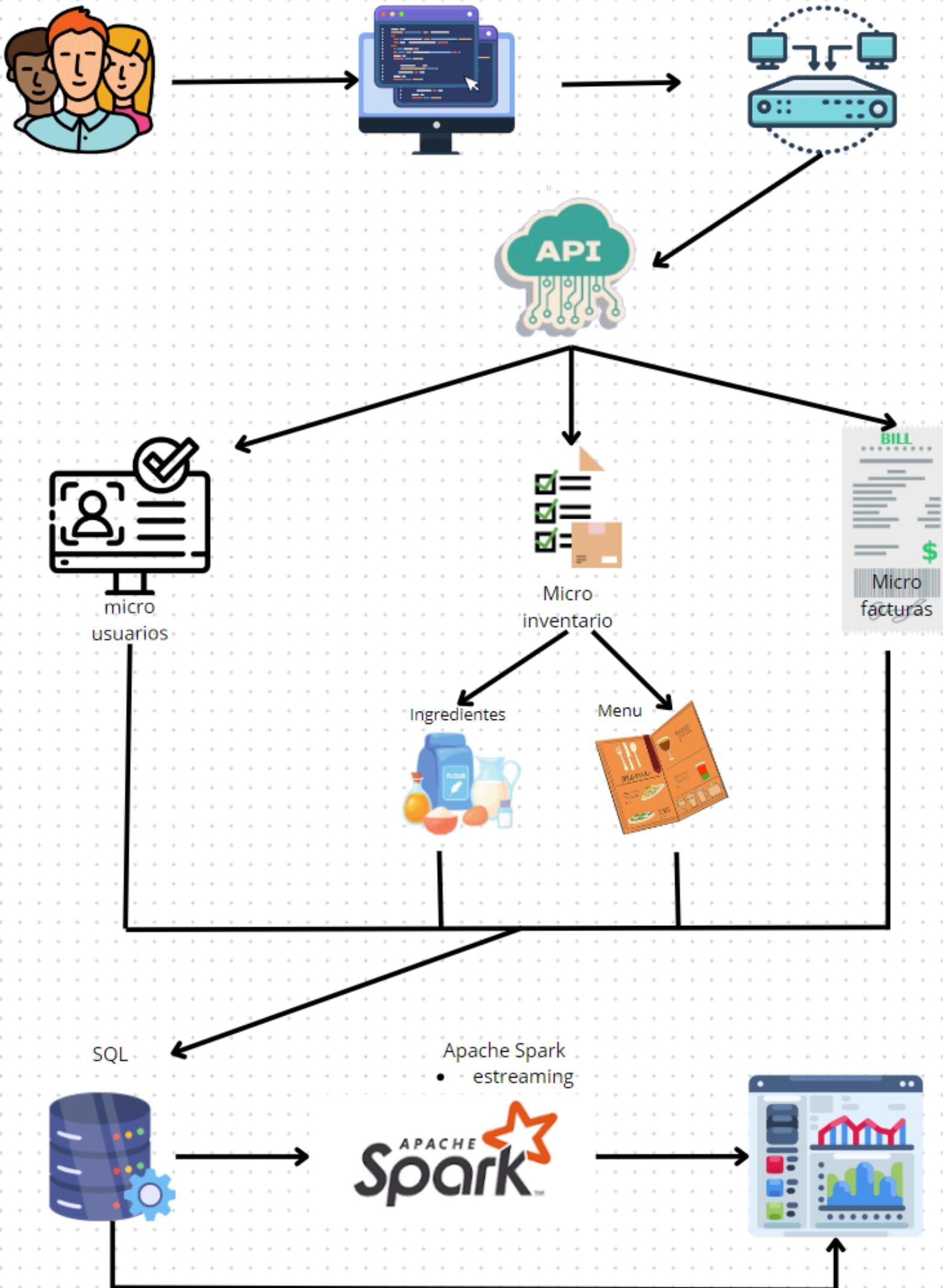
 AWS Fargate

PROCESAMIENTO DISTRIBUIDO

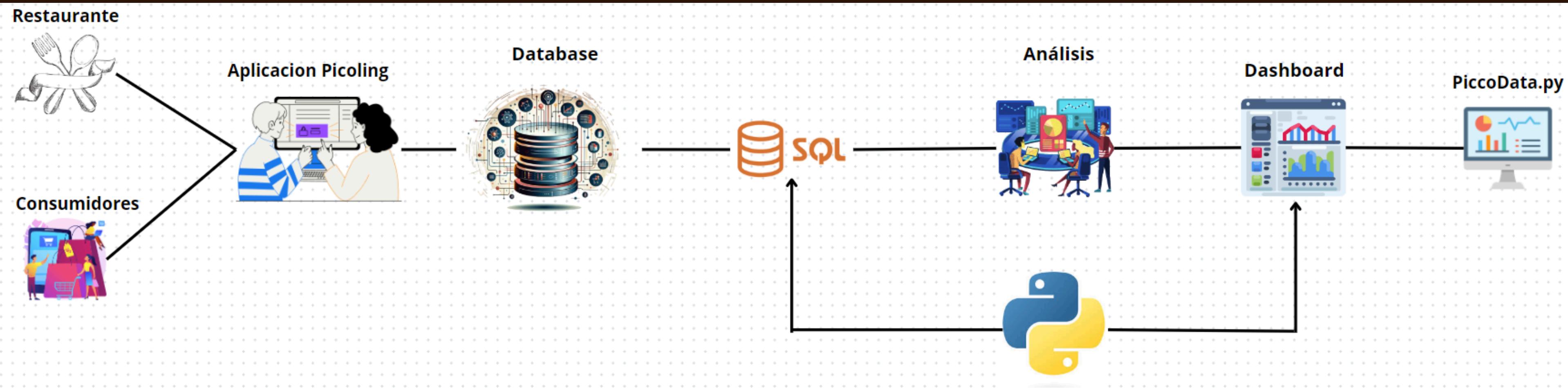


ALTERNATIVAS SELECCIONADAS





ARQUITECTURA DEL SISTEMA



PIPELINE

Diagrama componentes Piccoling



COMPONENTES

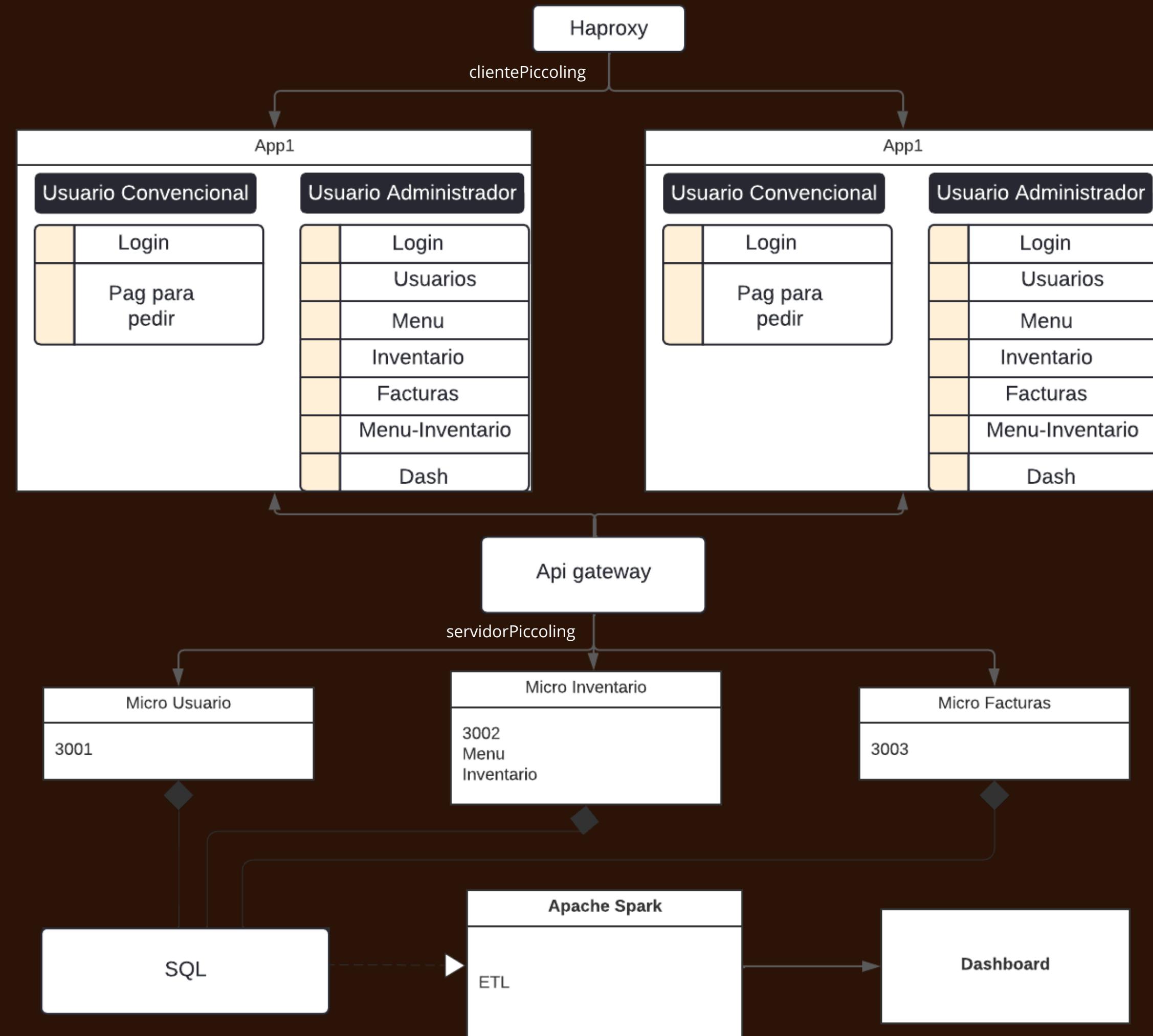
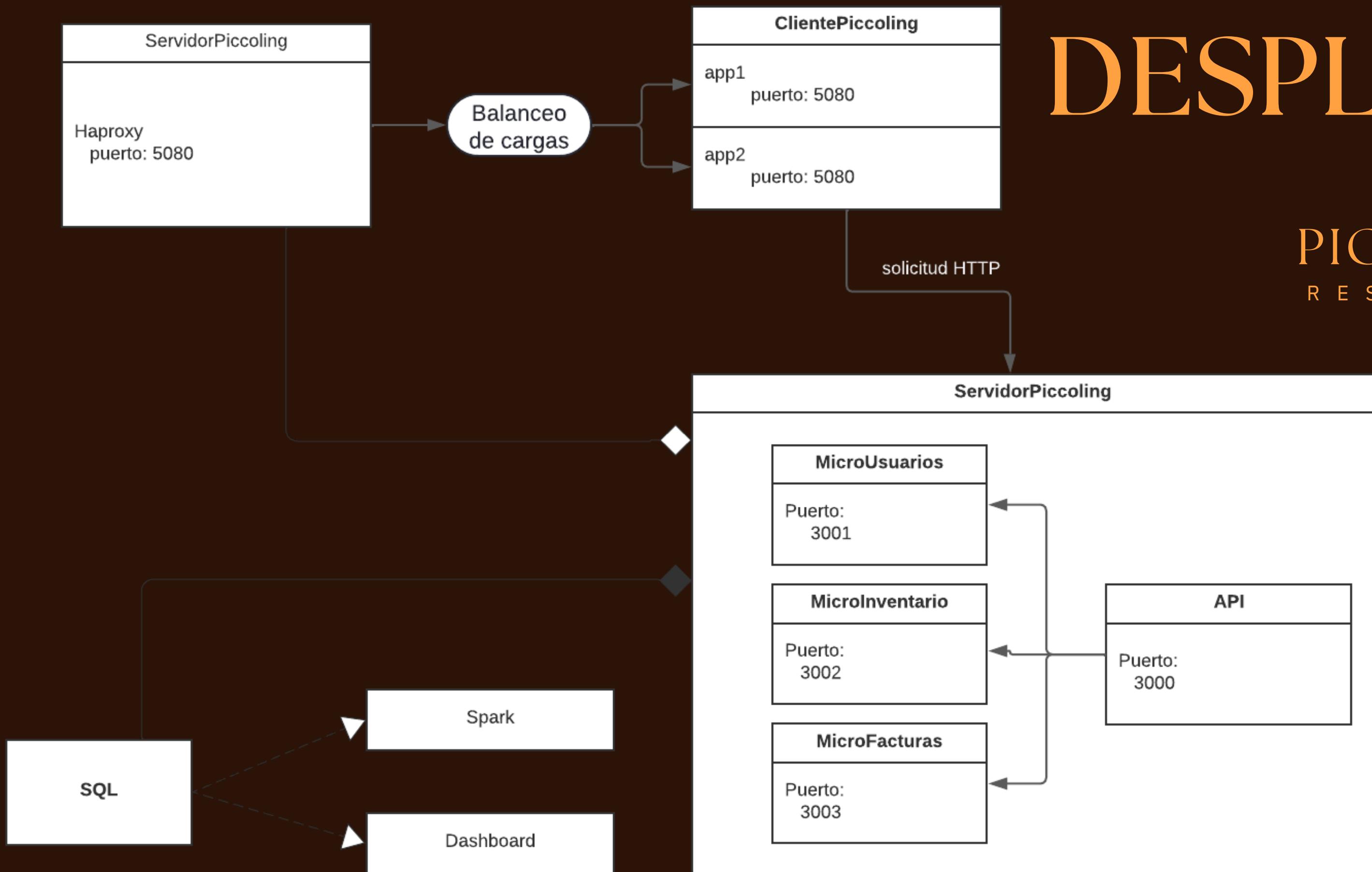


Diagrama despliegue Piccoling



DESPLIEGUE



PICCOLING
RESTAURANT



IMPLEMENTACION DE SOLUCION

```
networks:
  cluster_piccoling_default:
services:
  haproxy:
    image: isabellaperezc/haproxyprueba
    deploy:
      placement:
        constraints:
          - node.hostname == servidorPiccoling
    init: true
    depends_on:
      - web1
      - web2
    ports:
      - "5080:80"

  db:
    image: mysql:5.7
    ports:
      - "32000:3306"
    environment:
      MYSQL_ROOT_PASSWORD: piccoling
    volumes:
      - ./db:/docker-entrypoint-initdb.d/:ro
    deploy:
      placement:
        constraints:
          - node.hostname == servidorPiccoling

  usuarios:
  +--- 9 lines: image: isabellaperezc/usuariopiccoling---

  inventario:
  +--- 9 lines: image: isabellaperezc/inventariopiccoling-

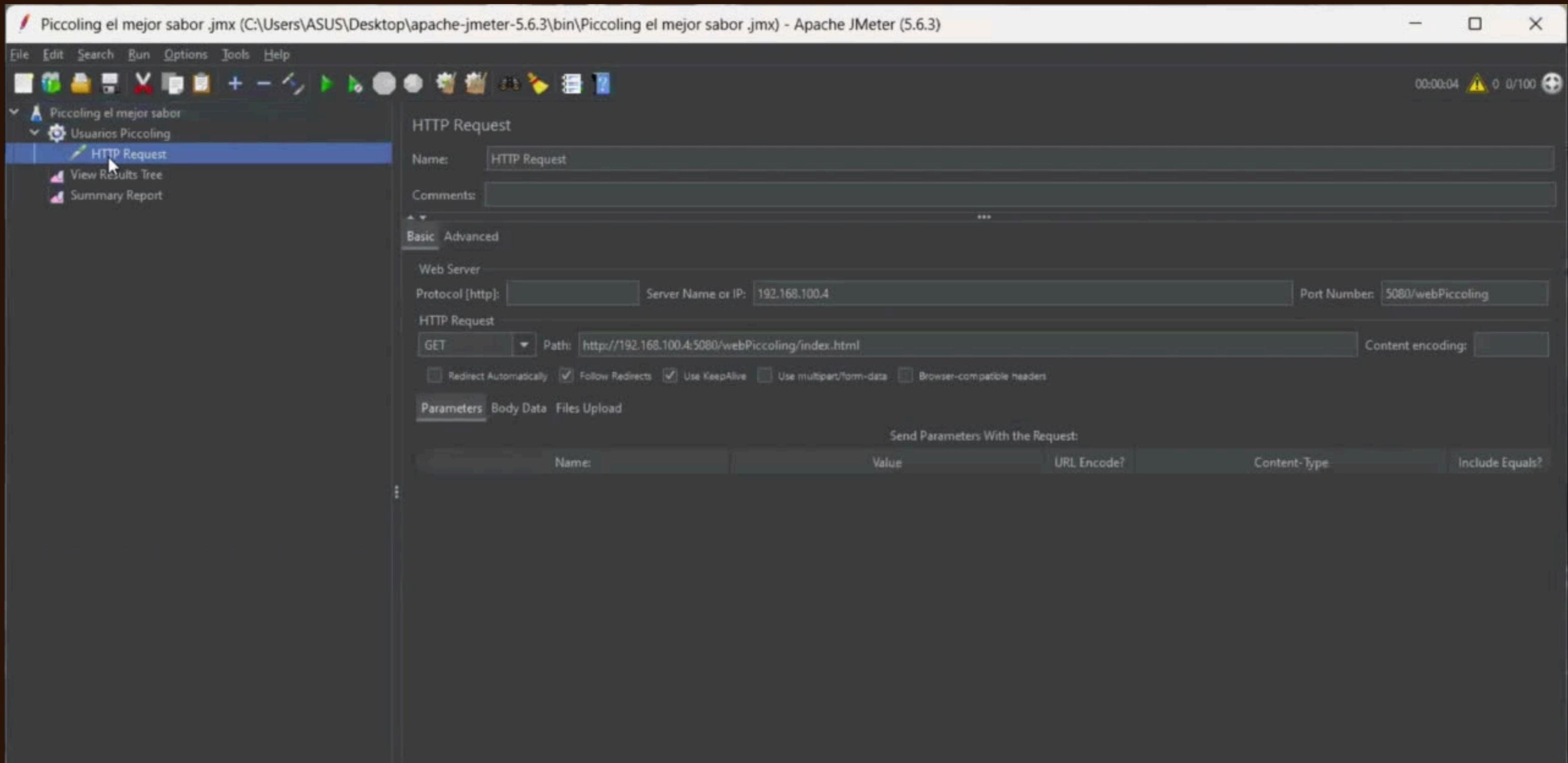
  facturas:
  +--- 9 lines: image: isabellaperezc/facturaspiccoling---

  web1:
    image: isabellaperezc/webpiccoling
    depends_on:
      - usuarios
      - inventario
      - facturas
    deploy:
      placement:
        constraints:
          - node.hostname == clientePiccoling
    init: true
```

IMPLEMENTACION DE SOLUCION

```
tree . . .  
├── docker-compose.yml  
├── haproxy  
│   ├── Dockerfile  
│   └── haproxy.cfg  
└── microFacturas  
    ├── Dockerfile  
    └── src  
        ├── controllers  
        │   └── facturasController.js  
        ├── index.js  
        └── models  
            └── facturasModel.js  
microInventario  
├── Dockerfile  
└── src  
    ├── controllers  
    │   └── inventarioController.js  
    ├── index.js  
    └── models  
        └── inventarioModel.js  
microUsuarios  
├── Dockerfile  
└── src  
    ├── controllers  
    │   └── usuariosController.js  
    ├── index.js  
    └── models  
        └── usuariosModel.js  
README.md  
webPiccoling  
├── actualizarInventarioPicco.php  
├── admin-facturasPicco.php  
├── admin-inventarioPicco.php  
├── admin-menuPicco.php  
├── adminPicco.php  
├── admin-preparacionPicco.php  
├── crearInventarioPicco.php  
├── crearMenuPicco.php  
├── crearPreparacionPicco.php  
└── crearUsuarioPicco.php  
dash.php
```

PRUEBAS CARGA Y ESCALABILIDAD





IMPLEMENTACION DE ANALISIS

The screenshot shows a web browser window titled "Proyecto Piccolino" with the URL "192.168.100.4:5080/". A modal dialog box is open, asking "¿Quieres traducir la página del inglés?" with options "español" and "Traducir". The main page displays a list of food items with their details and quantity input fields.

Nombre Platillo	Precio	Cantidad	Imagen
Pie Filling - Pumpkin	12044.49	80	
Soup - Campbells, Butternut	75944.75	39	
Gin - Gilbeys London, Dry	64268.24	71	
Rice - Jasmine Sented	91452.02	22	
Shrimp - Black Tiger 13/15	3544.74	90	
Chips - Potato Jalapeno	77370.06	90	
Bag Stand	25693.81	70	
Bagel - Everything Presliced			

Logout nico

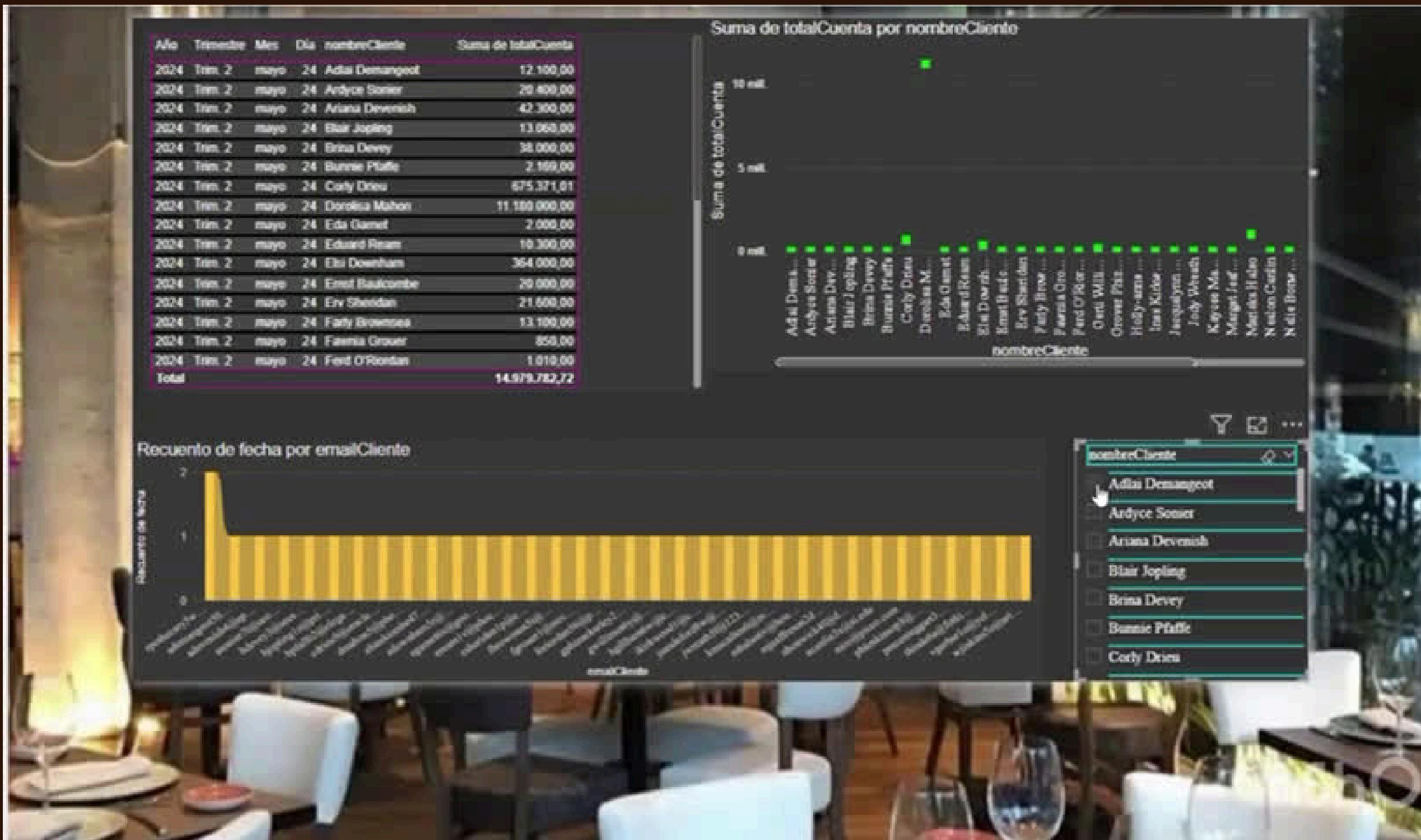
Cantidad a pedir

Agregar a la orden

root@servidorPiccolino:~/piccolino-whit-docker/db# ls
init.sql piccodata.py
root@servidorPiccolino:~/piccolino-whit-docker/db#



IMPLEMENTACION DE ANALISIS



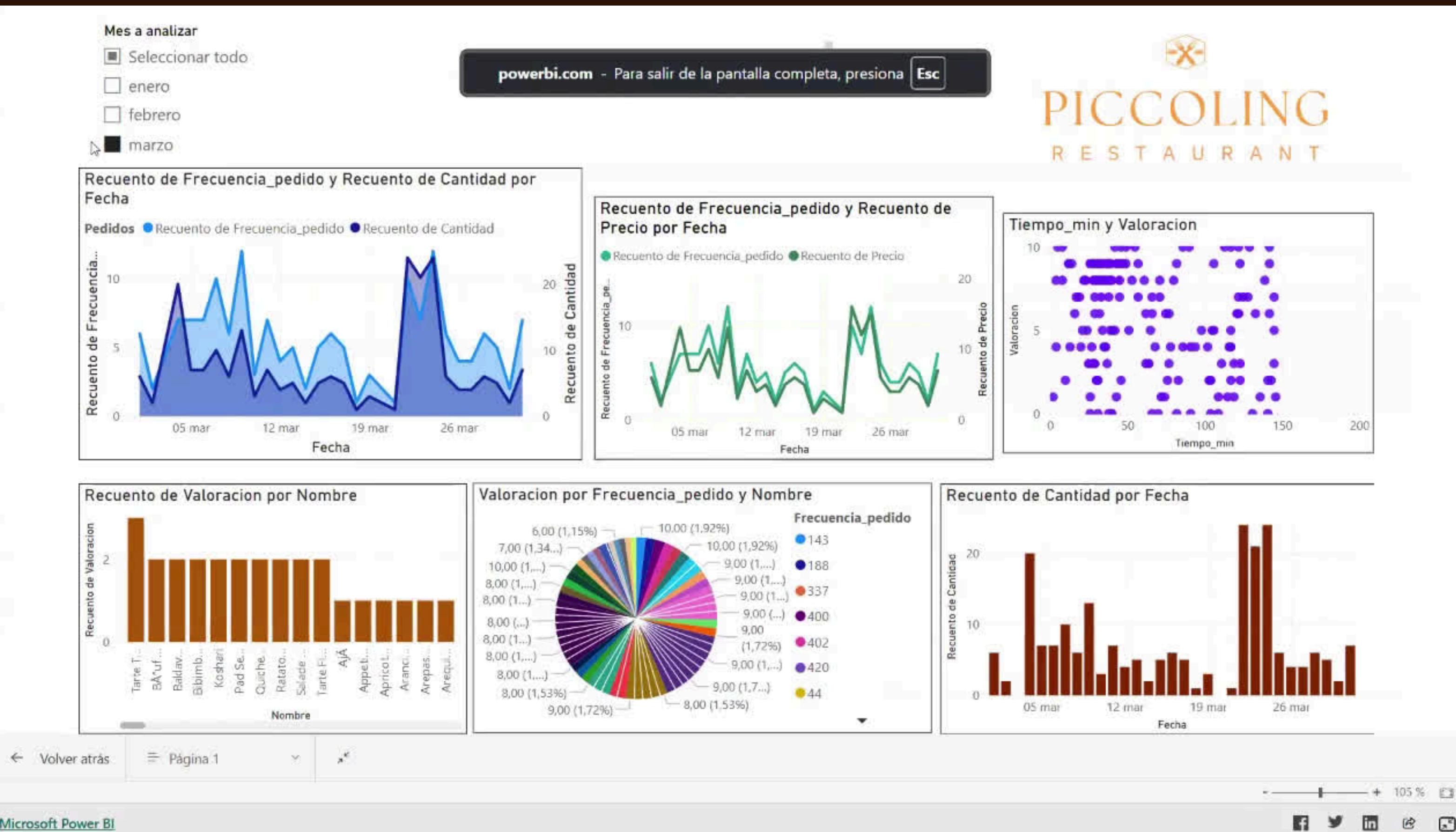


IMPLEMENTACION DE ANALISIS

```
root@servidorUbuntu:~/piccolabSpark/app# vim app_picco.py
root@servidorUbuntu:~/piccolabSpark/app# vim picco_bro_aca.py
root@servidorUbuntu:~/piccolabSpark/app# cd ..
root@servidorUbuntu:~/piccolabSpark# cd app
root@servidorUbuntu:~/piccolabSpark/app# vim app_cluster.py
root@servidorUbuntu:~/piccolabSpark/app# vim app_picco.py
root@servidorUbuntu:~/piccolabSpark/app# root@servidorUbuntu:~/piccolabSpark/app#
root@servidorUbuntu:~/piccolabSpark/app# vim picco_bro_aca.py
root@servidorUbuntu:~/piccolabSpark/app# cd ..
root@servidorUbuntu:~/piccolabSpark# cd spark-3.3.1-bin-hadoop3
root@servidorUbuntu:~/piccolabSpark/spark-3.3.1-bin-hadoop3# cd bin/
root@servidorUbuntu:~/piccolabSpark/spark-3.3.1-bin-hadoop3/bin# ./spark-submit --master spark://servidorUbuntu:7077 /root/piccolabSpark/app/app_picco.py
24/05/24 06:27:57 warn util: Your hostname, servidorUbuntu resolves to a loopback address: 127.0.0.1; using 10.0.2.15 (net
w/0.0.0.0/0 netmask 0.0.0.0) as the interface eth0
24/05/24 06:27:57 warn util: Set SPARK_LOCAL_IP if you need to bind to another address
24/05/24 06:27:59 INFO SparkContext: Running Spark version 3.3.1
24/05/24 06:27:59 INFO SparkContext: OS info Linux, 5.15.0-63-generic, x64
24/05/24 06:27:59 INFO SparkContext: Java version 18.0.2+8
24/05/24 06:27:59 warn NativeCodeLoader: Unable to load native-hadoop library for your platform... using built-in java classes
where applicable
24/05/24 06:27:59 INFO ResourceUtils: ...
24/05/24 06:27:59 INFO ResourceUtils: No custom resources configured for spark driver.
24/05/24 06:27:59 INFO ResourceUtils: ...
24/05/24 06:27:59 INFO SparkContext: Submitted application: DataApp
24/05/24 06:27:59 INFO ResourceProfile: Default ResourceProfile created, executor resources: Map(memory => name: memory, am
ount: 15G), script: , vendor: , offHeap => name: offHeap, amount: 0, script: , vendor: ), task resources: Map(cpu => name: t
cpu, amount: 1.0)
24/05/24 06:27:59 INFO ResourceProfile: Limiting resource is cpu
24/05/24 06:27:59 INFO ResourceProfileManager: Added ResourceProfile id: 0
24/05/24 06:27:59 INFO SecurityManager: Changing view acls to: root
```



SISTAVAN DE NOVOCOIN





CONCLUSIONES



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RESTAURANT

THANK YOU

