

Navigator

## SCHEMAS

Filter objects

- classicmodels
  - Tables
    - customers
    - employees
    - offices
    - orderdetails
    - orders
    - payments
    - productlines
    - products
  - Views
  - Stored Procedures
  - Functions
- customer
- sys

Administration Schemas

Information

Schema: sys

Query 1

customers

orderdetails

orders

products

Limit to 1000 rows

1 • SELECT \* FROM classicmodels.products;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

productCode	productName	productLine	productScale	productVendor	productDescription	quantityInStock	buyPrice	MSRP
S10_1678	1969 Harley Davidson Ultimate Chopper	Motorcycles	1:10	Min Lin Diecast	This replica features working kickstand, front su...	7933	48.81	95.70
S10_1949	1952 Alpine Renault 1300	Classic Cars	1:10	Classic Metal Creations	Turnable front wheels; steering function; detail...	7305	98.58	214.30
S10_2016	1996 Moto Guzzi 1100i	Motorcycles	1:10	Highway 66 Mini Classics	Official Moto Guzzi logos and insignias, saddle b...	6625	68.99	118.94
S10_4698	2003 Harley-Davidson Eagle Drag Bike	Motorcycles	1:10	Red Start Diecast	Model features, official Harley Davidson logos a...	5582	91.02	193.66
S10_4757	1972 Alfa Romeo GTA	Classic Cars	1:10	Motor City Art Classics	Features include: Turnable front wheels; steeri...	3252	85.68	136.00
S10_4962	1962 Lancia Delta 16V	Classic Cars	1:10	Second Gear Diecast	Features include: Turnable front wheels; steeri...	6791	103.42	147.74
S12_1099	1968 Ford Mustang	Classic Cars	1:12	Autoart Studio Design	Hood, doors and trunk all open to reveal highly ...	68	95.34	194.57
S12_1108	2001 Ferrari Enzo	Classic Cars	1:12	Second Gear Diecast	Turnable front wheels; steering function; detail...	3619	95.59	207.80
S12_1666	1958 Setra Bus	Trucks and Buses	1:12	Welly Diecast Productions	Model features 30 windows, skylights & glare re...	1579	77.90	136.67
S12_2823	2002 Suzuki XREO	Motorcycles	1:12	Unimax Art Galleries	Official logos and insignias, saddle bags located ...	9997	66.27	150.62
S12_3148	1969 Corvair Monza	Classic Cars	1:18	Welly Diecast Productions	1:18 scale die-cast about 10" long doors open, ...	6906	89.14	151.08
S12_3380	1968 Dodge Charger	Classic Cars	1:12	Welly Diecast Productions	1:12 scale model of a 1968 Dodge Charger. Ho...	9123	75.16	117.44
S12_3891	1969 Ford Falcon	Classic Cars	1:12	Second Gear Diecast	Turnable front wheels; steering function; detail...	1049	83.05	173.02
S12_3990	1970 Plymouth Hemi Cuda	Classic Cars	1:12	Studio M Art Models	Very detailed 1970 Plymouth Cuda model in 1:1...	5663	31.92	79.80
S12_4473	1957 Chevy Pickup	Trucks and Buses	1:12	Exoto Designs	1:12 scale die-cast about 20" long Hood opens, ...	6125	55.70	118.50
S12_4675	1969 Dodge Charger	Classic Cars	1:12	Welly Diecast Productions	Detailed model of the 1969 Dodge Charger. Thi...	7323	58.73	115.16
S18_1097	1940 Ford Pickup Truck	Trucks and Buses	1:18	Studio M Art Models	This model features soft rubber tires, working s...	2613	58.33	116.67
S18_1129	1993 Mazda RX-7	Classic Cars	1:18	Highway 66 Mini Classics	This model features, opening hood, opening do...	3975	83.51	141.54
S18_1342	1937 Lincoln Berline	Vintage Cars	1:18	Motor City Art Classics	Features opening engine cover, doors, trunk, a...	8693	60.62	102.74
S18_1367	1936 Mercedes-Benz 500K Special Roa...	Vintage Cars	1:18	Studio M Art Models	This 1:18 scale replica is constructed of heavy d...	8635	24.26	53.91
S18_1589	1965 Aston Martin DB5	Classic Cars	1:18	Classic Metal Creations	Die-cast model of the silver 1965 Aston Martin ...	9042	65.96	124.44
S18_1662	1980s Black Hawk Helicopter	Planes	1:18	Red Start Diecast	1:18 scale replica of actual Army's UH-60L BLAC...	5330	77.27	157.69
S18_1749	1917 Grand Touring Sedan	Vintage Cars	1:18	Welly Diecast Productions	This 1:18 scale replica of the 1917 Grand Tourin...	2724	86.70	170.00
S18_1889	1948 Porsche 356-A Roadster	Classic Cars	1:18	Gearbox Collectibles	This precision die-cast replica features opening ...	8826	53.90	77.00
S18_1984	1995 Honda Civic	Classic Cars	1:18	Min Lin Diecast	This model features, opening hood, opening do...	9772	93.89	142.25

products 1 x

Apply

Navigator

## SCHEMAS

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Administration Schemas

Information

### Table: customers

Columns:

- customerNumber
- customerName
- contactLastName
- contactFirstName
- phone
- addressLine1
- addressLine2
- city
- state

int PK  
varchar(5)  
varchar(5)  
varchar(5)  
varchar(5)  
varchar(5)  
varchar(5)  
varchar(5)  
varchar(5)

Query 1 customers orderdetails orders products orders orderdetails customers

Limit to 1000 rows

1 • SELECT \* FROM classicmodels.customers;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: A

	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEn
▶	103	Atelier graphique	Schmitt	Carine	40.32.2555	54, rue Royale	NULL	Nantes	NULL	44000	France	1370
	112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	NULL	Las Vegas	NV	83030	USA	1166
	114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Victoria	3004	Australia	1611
	119	La Rochelle Gifts	Labrun	Janine	40.67.8555	67, rue des Cinquante Otages	NULL	Nantes	NULL	44000	France	1370
	121	Baane Mini Imports	Bergulfsen	Jonas	07-98 9555	Erling Skakkes gate 78	NULL	Stavern	NULL	4110	Norway	1504
	124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.	NULL	San Rafael	CA	97562	USA	1165
	125	Havel & Zbyszek Co	Piestrzeniewicz	Zbyszek	(26) 642-7555	ul. Filtrowa 68	NULL	Warszawa	NULL	01-012	Poland	NULL
	128	Blauer See Auto, Co.	Keitel	Roland	+49 69 66 90 2555	Lyonerstr. 34	NULL	Frankfurt	NULL	60528	Germany	1504
	129	Mini Wheels Co.	Murphy	Julie	6505555787	5557 North Pendale Street	NULL	San Francisco	CA	94217	USA	1165
	131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue	NULL	NYC	NY	10022	USA	1323
	141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/ Moralzarzal, 86	NULL	Madrid	NULL	28034	Spain	1370
	144	Volvo Model Replicas, Co	Berglund	Christina	0921-12 3555	Berguvsvägen 8	NULL	Luleå	NULL	S-958 22	Sweden	1504
	145	Danish Wholesale Imports	Petersen	Jytte	31 12 3555	Vinbæltet 34	NULL	Kobenhavn	NULL	1734	Denmark	1401
	146	Saveley & Henriot, Co.	Saveley	Mary	78.32.5555	2, rue du Commerce	NULL	Lyon	NULL	69004	France	1337
	148	Dragon Souvenirs, Ltd.	Natividad	Eric	+65 221 7555	Bronz Sok.	Bronz Apt. 3...	Singapore	NULL	079903	Singapore	1621
	151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Cirde	Suite 400	NYC	NY	10022	USA	1286
	157	Diccast Classics Inc.	Leong	Kelvin	2155551555	7586 Pompton St.	NULL	Allentown	PA	70267	USA	1216
	161	Technics Stores Inc.	Hashimoto	Juri	6505556809	9408 Furth Cirde	NULL	Burlingame	CA	94217	USA	1165
	166	Handji Gifts & Co	Victorino	Wendy	+65 224 1555	106 Linden Road Sandown	2nd Floor	Singapore	NULL	069045	Singapore	1612
	167	Herkuu Gifts	Oeztan	Veysel	+47 2267 3215	Brehmen St. 121	PR 334 Sent...	Bergen	NULL	N 5804	Norway	1504
	168	American Souvenirs Inc	Franco	Keith	2035557845	149 Spinnaker Dr.	Suite 101	New Haven	CT	97823	USA	1286
	169	Porto Imports Co.	de Castro	Isabel	(1) 356-5555	Estrada da saúde n. 58	NULL	Lisboa	NULL	1756	Portugal	NULL
	171	Daedalus Designs Imports	Rancé	Martine	20.16.1555	184, chaussée de Tournai	NULL	Lille	NULL	59000	France	1370
	172	La Corne D'abondance, Co.	Bertrand	Marie	(1) 42.34.2555	265, boulevard Charonne	NULL	Paris	NULL	75012	France	1337

customers 1 x

Output

Result Grid

Form Editor

Field Types

Query Stats

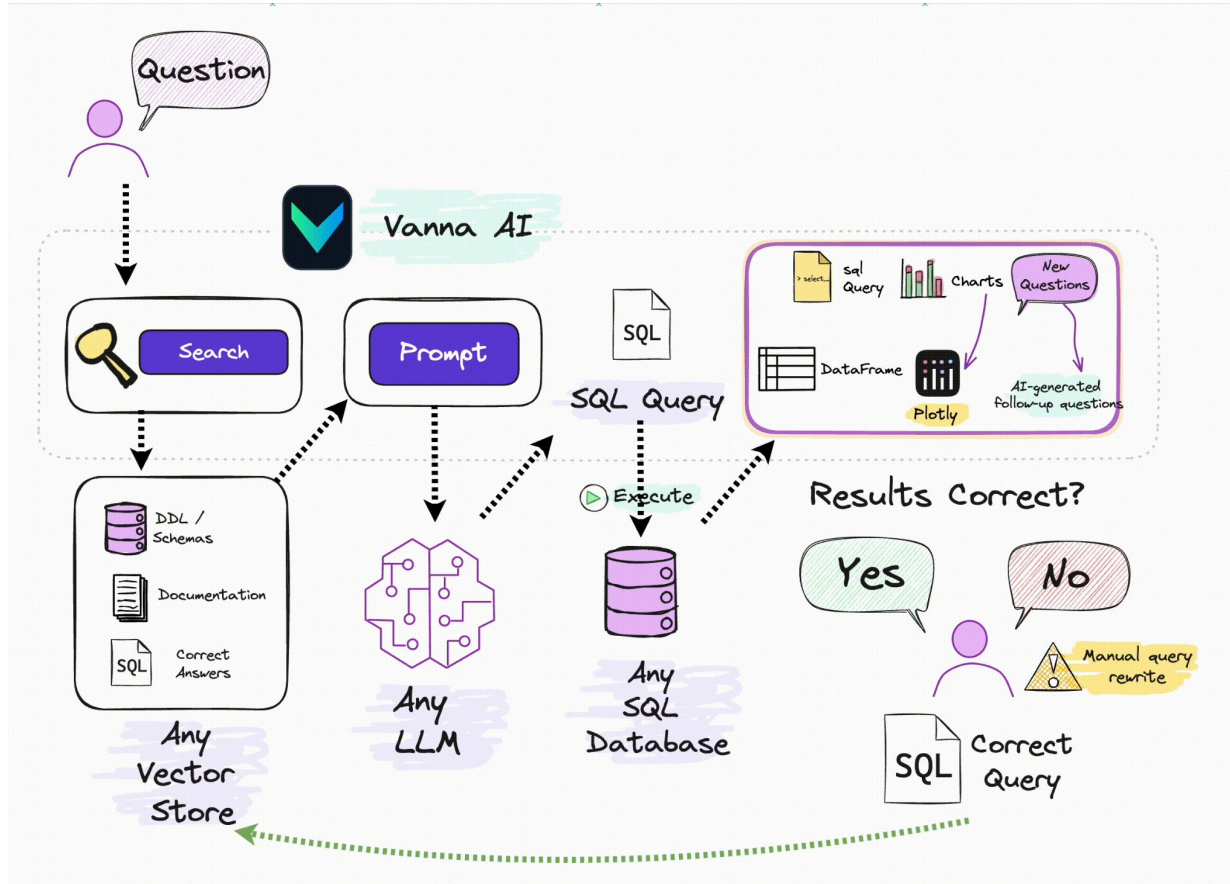
Execution Plan

Apply

Revert



# Vaana AI



# Vaana AI

The screenshot displays a JupyterLab environment. On the left, a file explorer shows the project structure for 'VANNA', including files like .github, 1ebaf1be-8628-49a8-a44d-7e6108a..., 29dc666d-091a-4c71-8ccc-09023d7..., bbb7a994-3ebe-473e-84ce-e021003..., img, myenv, papers, src, tests, training\_data, .gitattributes, .gitignore, .pre-commit-config.yaml, chroma.sqlite3, CONTRIBUTING.md, demo.ipynb (selected), LICENSE, main.py, pyproject.toml, README.md, setup.cfg, and tox.ini.

The central code editor shows the content of 'demo.ipynb'. It begins with a cell containing `print("start training")`. Below this, there are four cells of Python code: `vn.train(ddl=DDL_5)`, `vn.train(ddl=DDL_6)`, `vn.train(ddl=DDL_7)`, and `vn.train(ddl=DDL_8)`. The next cell is a markdown cell titled '# 2. ENTRENAMIENTO CON DOCUMENTACIÓN DESCRIPTIVA' containing a docstring for `vn.train(documentation="...")`. The docstring describes the 'classicmodels' database schema, listing tables like 'productlines', 'products', 'offices', 'employees', 'customers', 'payments', 'orders', and 'orderdetails' with their respective descriptions.

The bottom terminal panel shows the output of the code execution. It starts with 'start training' and 'Adding ddl:'. This is followed by a SQL command to create a table named 'productlines' with columns: 'productline' (varchar(50), primary key), 'textDescription' (varchar(4000), default null), 'htmlDescription' (mediumtext), and 'image' (mediumblob). The terminal also shows the execution of `vn.train(ddl=DDL_5)`.

```
respuesta = vn.ask(question="¿Dime el nombre de los 10 clientes que ha comprado más en total")
print(respuesta)
```

✓ 44.0s

Python

```
SQL Prompt: [{'role': 'system', 'content': "You are a SQL expert. Please help to generate a SQL query to answer the question. Your response should ONLY be based on the"}]
```

Info: Ollama parameters:  
model=deepseek-r1:7b,  
options={},  
keep\_alive=None

Info: Prompt Content:  
[{"role": "system", "content": "You are a SQL expert. Please help to generate a SQL query to answer the question. Your response should ONLY be based on the given content"}]

Info: Ollama Response:  
model='deepseek-r1:7b' created\_at='2025-10-04T07:55:27.0702906Z' done=True done\_reason='stop' total\_duration=19810684300 load\_duration=37866900 prompt\_eval\_count=1888

LLM Response: <think>  
Okay, let me try to figure out how to answer the user's question. The user is asking for the names of the top 10 customers who have spent the most in total and their respective countries.

First, I'll look at the tables provided. There's a 'customers' table with customerNumber, customerName, contactLastName, etc., including country. Then there's a 'payments' table with paymentId, customerNumber, amount, paymentDate, and paymentMethod.

To get the total spending per customer, I can use SQL to sum up all amounts for each customerNumber in the payments table. But since customers might not have any payments, I'll use COALESCE to handle that.

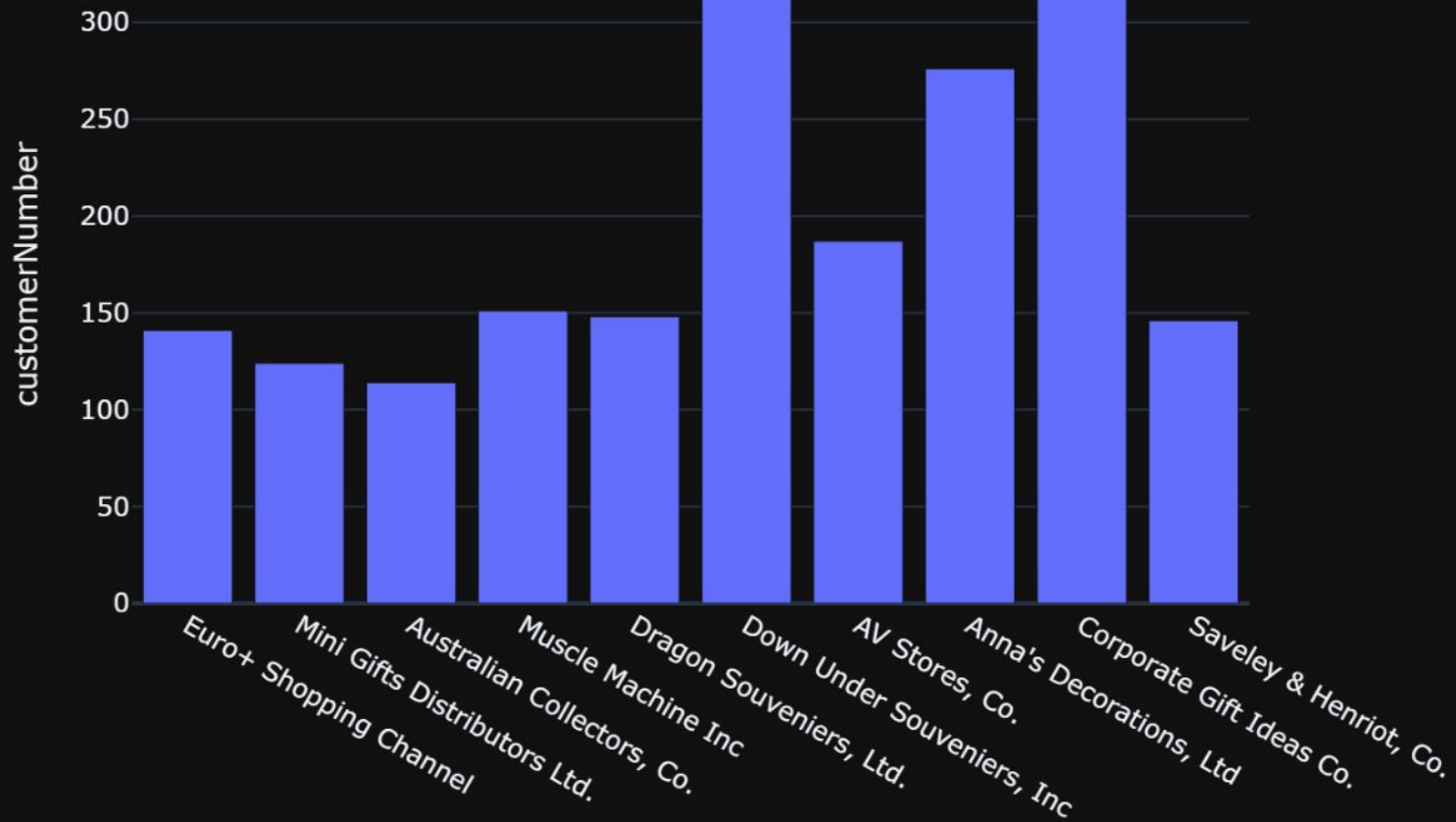
I'll join the 'payments' table with the 'customers' table using customerNumber as the key. Then, group by customerNumber and sum up the amounts. This will give me each customer's total spending.

Next, I need to add the country information from the customers table. So after calculating the total spent per customer, I'll join it again with the 'customers' table to get the country names.

To find the top 10 customers who have spent the most, I'll order the results by the total amount in descending order and limit it to 10 rows.

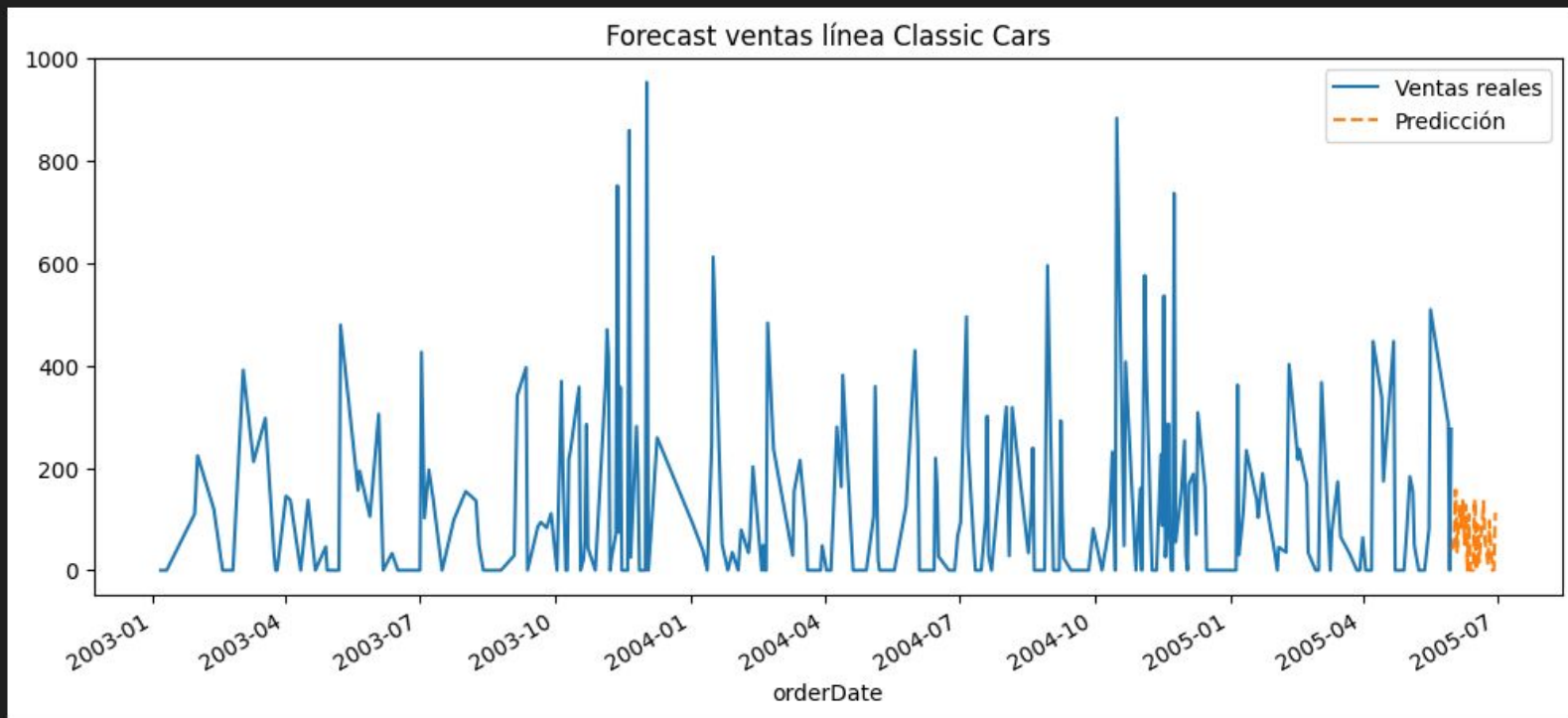
I should also make sure that the SQL query is correct, using the appropriate JOIN clauses and functions. Testing might be needed to ensure there are no errors and the results are accurate.

</think>



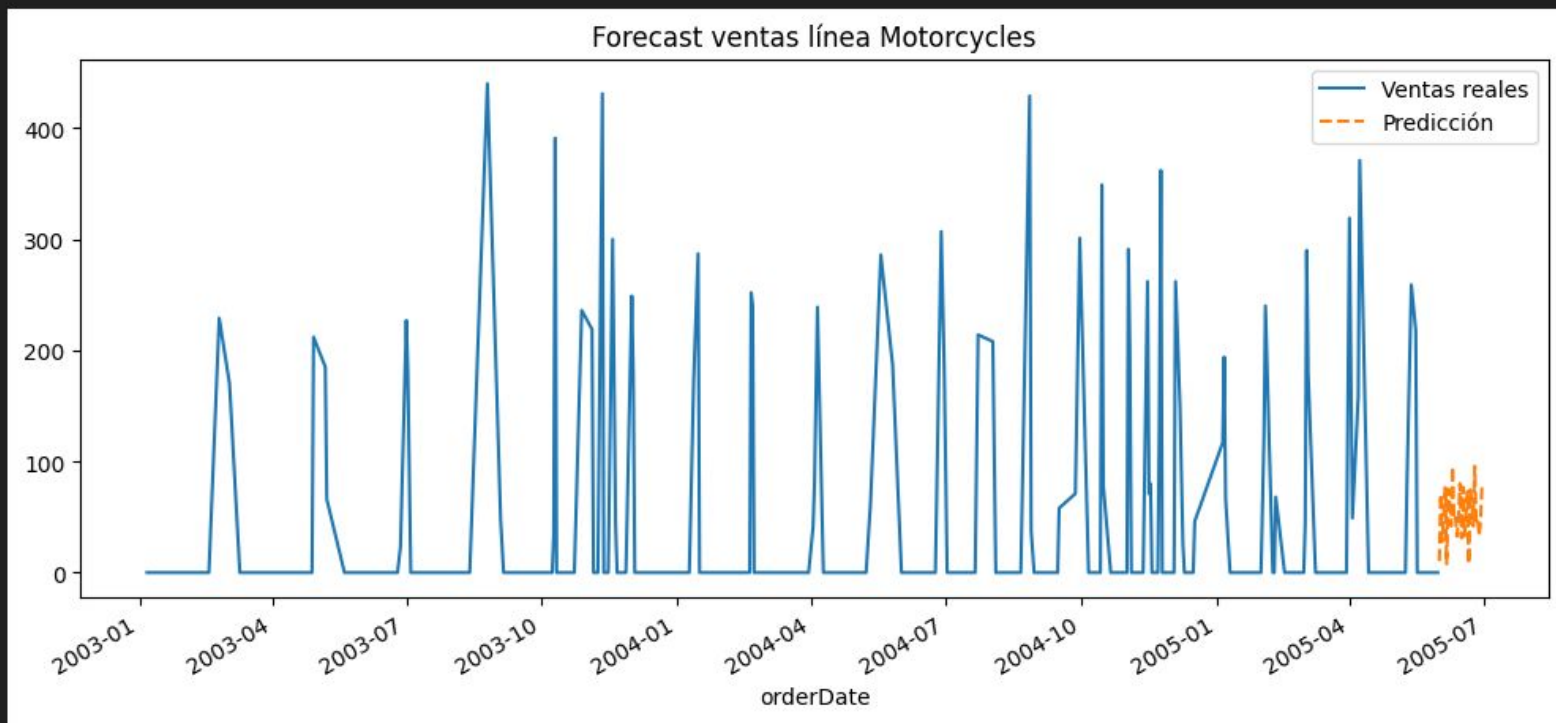
**Skforecast** : 是 Python 库, 用于**时间序列预测**, 可以结合机器学习模型 (如 LightGBM、Random Forest 等) 预测未来数据。

```
plt.plot(
```



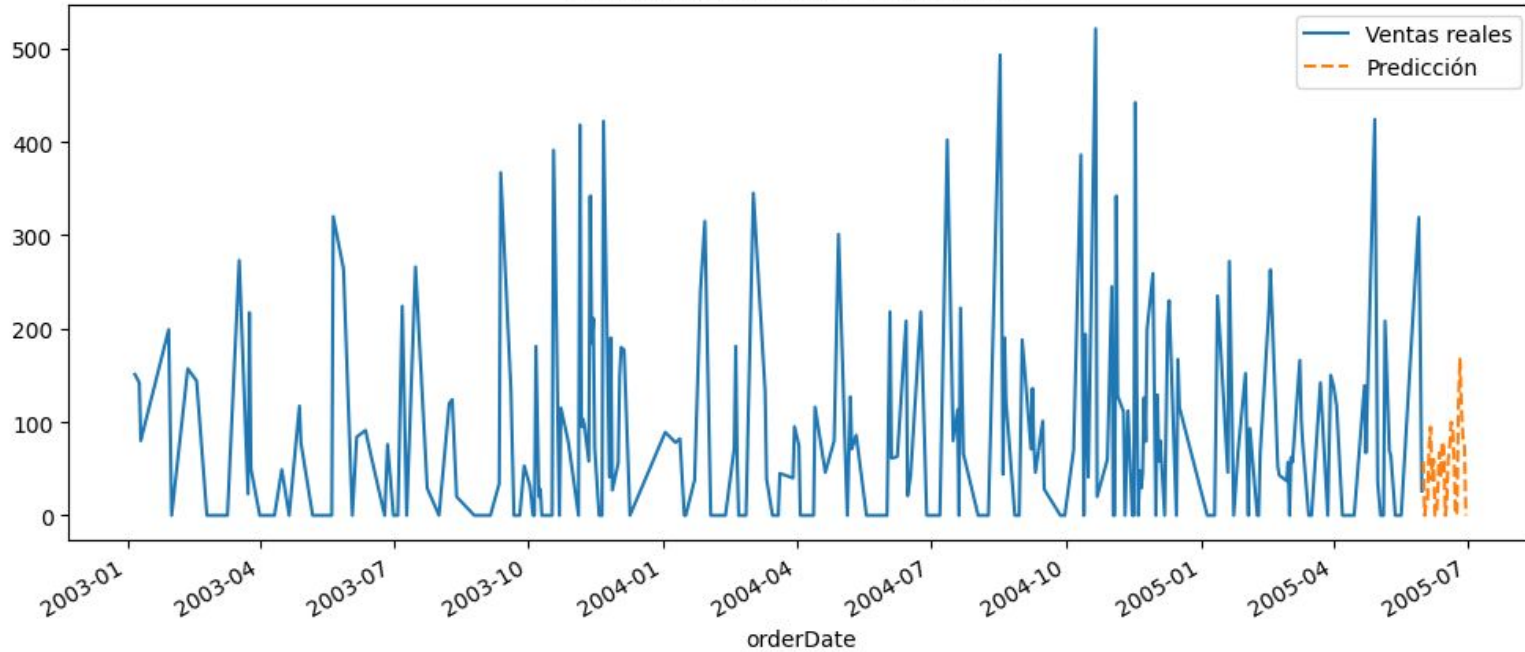


```
plt.plot()
```



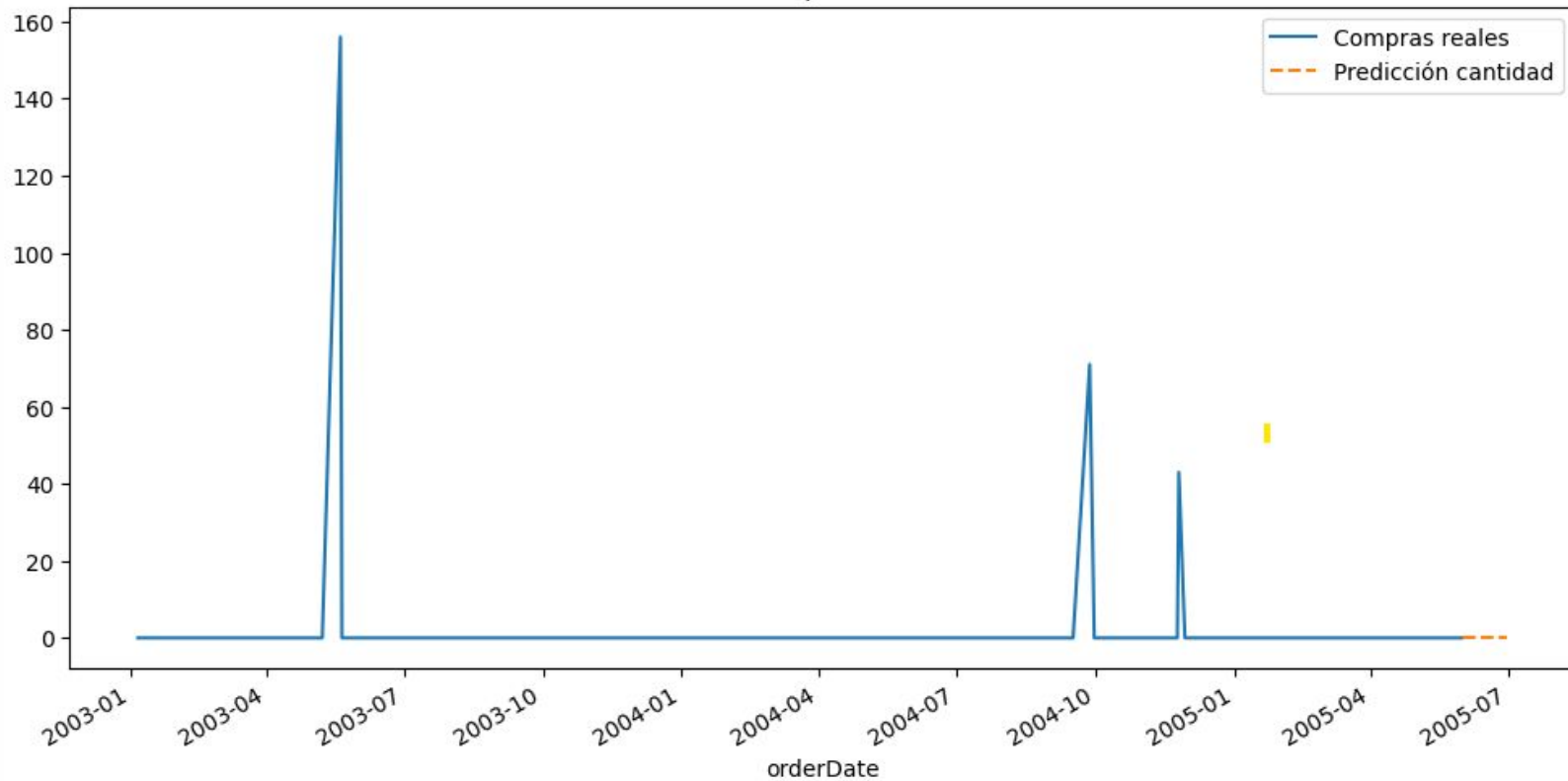
```
C:\Users\fdsam\AppData\Local\Temp\ipykernel_20648\3756302947.py:55: UserWarning: This axis already has a converter set and is updating to a potentially  
plt.plot()
```

Forecast ventas línea Vintage Cars

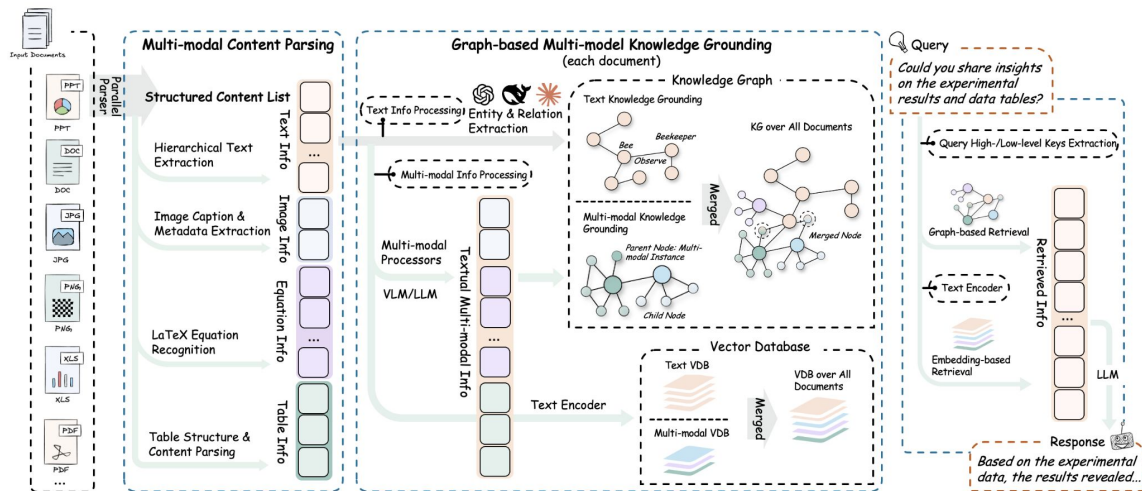


```
plt.plot(
```

Forecast compras cliente 103



# RAG-Anything



RAG-Anything 是一个工具/框架, 用来把 检索增强生成 (RAG, Retrieval-Augmented Generation) 技术应用到各种数据源上。

它的目标是:

1. 让你可以把 **任何格式的数据** (文档、Excel 表格、数据库、PDF 等) 放进知识库。
2. 用 **embedding(向量化语义表示)** 和 **大语言模型 (LLM, 比如 GPT-4、GPT-5)** 结合, 实现 **问答 / 搜索 / 总结**。
3. 避免 LLM 上下文窗口太小的问题——不是把所有数据 丢给模型, 而是先检索, 再生成回答。

可以把 RAG-Anything 想象成一个 **超级智能图书管理员**:

- 你把各种书 (Excel、PDF、网页) 交给他, 他会帮你拆分、分类、记忆 (embedding)。
- 当你问问题时, 他不会傻傻地把所有书给你看, 而是先找出最相关的几页, 再用他的智慧 (LLM) 帮你总结成答案。

```

# -----
result = await rag.aquery(
    "List the product names with their stock quantities and buy prices",
    mode="hybrid" # usa embeddings + LLM
)
print("Query result:", result)

# -----
# 5 Ejecutar en Jupyter con await
# -----
await insert_excel_to_rag()

```

Query result: I'm unable to provide stock quantities and buy prices because that information is not present in the provided context.

What is available from the context

- Product names (product lines): Classic Cars, Motorcycles, Planes, Ships, Trains, Trucks and Buses, Vintage Cars.
- Some related details exist for these product lines (e.g., materials, scale ranges, certificate of authenticity, and display-ready status), but no stock

Note on pricing that is available

- For Vintage Cars, there is a price range mentioned: \$30.00 to \$180.00. This is the only explicit price data tied to a product line in the provided conte

If you can share a dataset or specify a table that includes stock quantities and buy prices, I can compile the list accordingly.

### References

[1] Dataset



列出产品名称及其库存数量和购买价格

- 产品名称(产品线):经典汽车、摩托车、飞机、轮船、火车、卡车和公共汽车、古董车。
- 这些产品线有一些相关详细信息(例如, 材质、比例范围、真品证书和可展示状态), 但数据中未列出库存数量或购买价格。

关于可用价格的说明

- 古董车的价格范围为:30.00 美元至 180.00 美元。这是提供的内容中唯一与 产品线相关的明确价格数据, 并且未指定 单个产品的购买价格或库存数量。

如果您可以分享数据集或指定包含 库存数量和购买价格的表格, 我可以相应地编制清单。