Data Analytics Agent (smol)

"For when people bother you for adhoc requests"

You have many tables, that links to each other

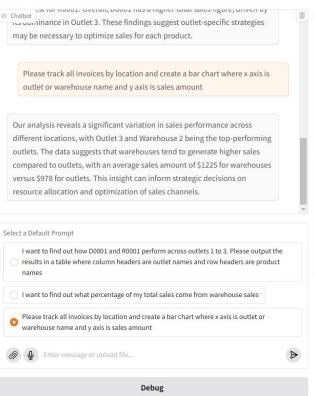
Invoice Table	Č	II n	E	-	G	н	1 J	K	L I	VI IN	U	P
invoice id	timestamp	subtotal	ast	total	origin address id	origin address type	Product Table			Address		
1	2025-02-06 13:45:43.679803+00	364	36	400	1	1	id	product code	name	id	street	postal code
2	2025-02-03 13:45:43.679803+00	227.5	22.5	250	4	2	1	D0001	Helicopter Drone	1	outlet 1 street	
3	2025-01-26 13:45:43.679803+00	500.5	49.5	550	2	1	2	R0001	Robot Dolly	2	outlet 2 street	1234
4	2025-01-22 13:45:43.679803+00	364	36	400	4	2	3	T0001	Motorized Tripod	3	outlet 3 street	1234
5	2025-01-17 13:45:43.679803+00	910	90	1000	2	1		ři –		4	outlet 4 street	123456
6	2025-01-10 13:45:43.679803+00	728	72	800	3	1	Outlet Table	U		5	outlet 5 street	1234567
7	2024-12-26 13:45:43.679803+00	910	90	1000	3	1	id	name	address_id			
8	2024-12-21 13:45:43.679803+00	364	36	400	5	2	1	Outlet 1	1			
9	2024-12-11 13:45:43.679803+00	637	63	700	5	2	2	Outlet 2	2			
10	2025-12-06 13:45:43.679803+00	728	72	800	5	2	3	Outlet 3	3			
Invoice Item							Warehouse Tab	le				
id	invoice_id	product_id	quantity	price	line_total		id	name	address_id			
1	1	1	1	200	200		1	Warehouse 1	4			
2	1	2	2	100	200		2	Warehouse 2	5			
3	2	3	5	50	250							
4	3	1	2	200	400							
5	3	3	7	50	350							
6	4	1	2	200	400		Total Sales By L	ocation				
7	5	2	10	100	1000		Outlet 1	400				
8	6	1	1	200	200		Outlet 2	1550				
9	6	2	6	100	600		Outlet 3	1800				
10	7	1	5	200	1000		Warehouse 1	650				
11	8	1	2	200	400		Warehouse 2	1900				
12	9	2	7	100	700							
13	10	3	20	40	800							

And when stakeholders make an adhoc request,

Please track all invoices by location and create a bar chart where x axis is outlet or warehouse name and y axis is sales amount

automate away!

Text2SQL & Code-Generated Visualisation





```
1500
 1250
 1000
  500
                                        Location Name
                                                                             V 1
Code Output
  1 import matplotlib.pyplot as plt
  3 def plot_sales_by_location(location_name, sales_amount):
        # Create a bar chart
        plt.figure(figsize=(10, 6))
        plt.bar(location_name, sales_amount, color='skyblue')
        # Add titles and labels
        plt.title('Sales Amount by Location')
        plt.xlabel('Location Name')
        plt.ylabel('Sales Amount')
        # Rotate x-axis labels for better readability if needed
        plt.xticks(rotation=45)
        # Display the plot
        plt.tight_layout()
        plt.show()
 21 location_name = ['Outlet 1', 'Outlet 2', 'Outlet 3', 'Warehouse 1', 'Warehouse
 22 sales_amount = [400, 1550, 1800, 650, 1900]
 24 # Call the function to plot the data
```

25 plot sales by location(location name, sales amount)

Sales Amount by Location

☑ Visualisation Output

1750