Data Analytics Agent (smol)

"For when people bother you for adhoc requests"

You have many tables, that links to each other

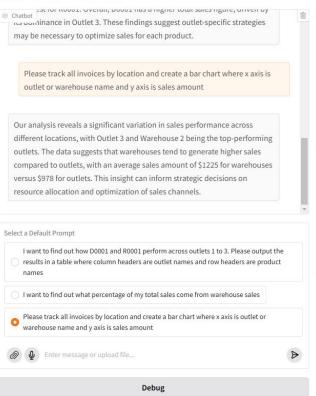
Invoice Table		III D	E	-	G	н	T.	J	K	L	M N	U	
invoice id	timestamp	subtotal	gst	total	origin address id	origin address type		Product Table			Address		
1	2025-02-06 13:45:43.679803+00	364	36	400	1	1 -		id	product code	name	id	street	postal code
2	2025-02-03 13:45:43.679803+00	227.5	22.5	250	4	2		1	D0001	Helicopter Drone	1	outlet 1 street	123
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	12345
5	2025-01-17 13:45:43.679803+00	910	90	1000	2	1					4	outlet 4 street	
6	2025-01-10 13:45:43.679803+00	728	72	800	3	1		Outlet Table			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	able				
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

