



Overview

VERA is a local SQL development and analysis tool designed for Vertica databases. It provides an intuitive interface for writing SQL, browsing schemas, running analysis tools, and leveraging a local AI model to assist with query generation and insights. This document introduces the application's main features, workflow, and built-in analysis tools.

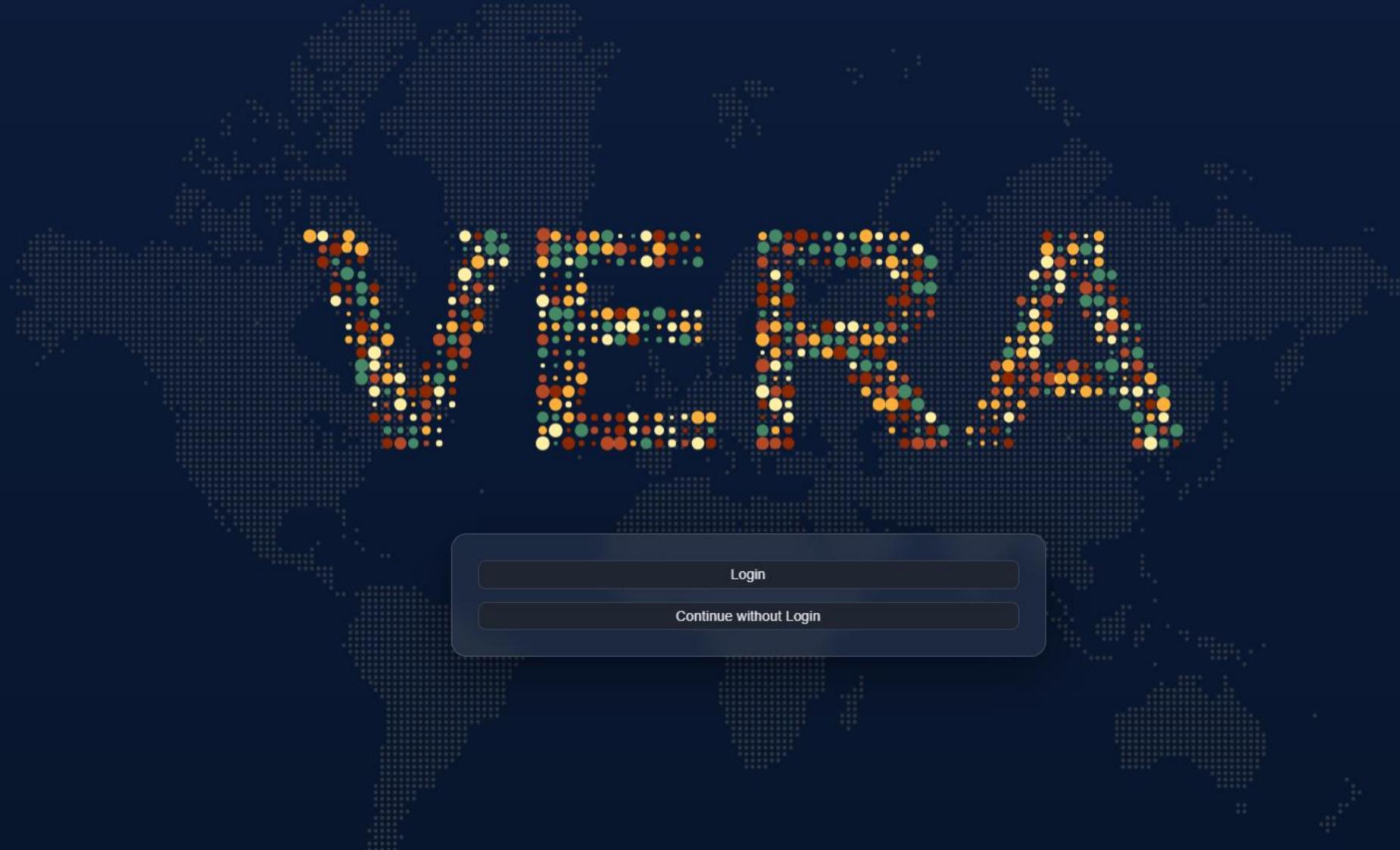
License & Disclaimer

Development: Vera was developed by **Maya Goldberg** via **AI tools** during design and implementation.

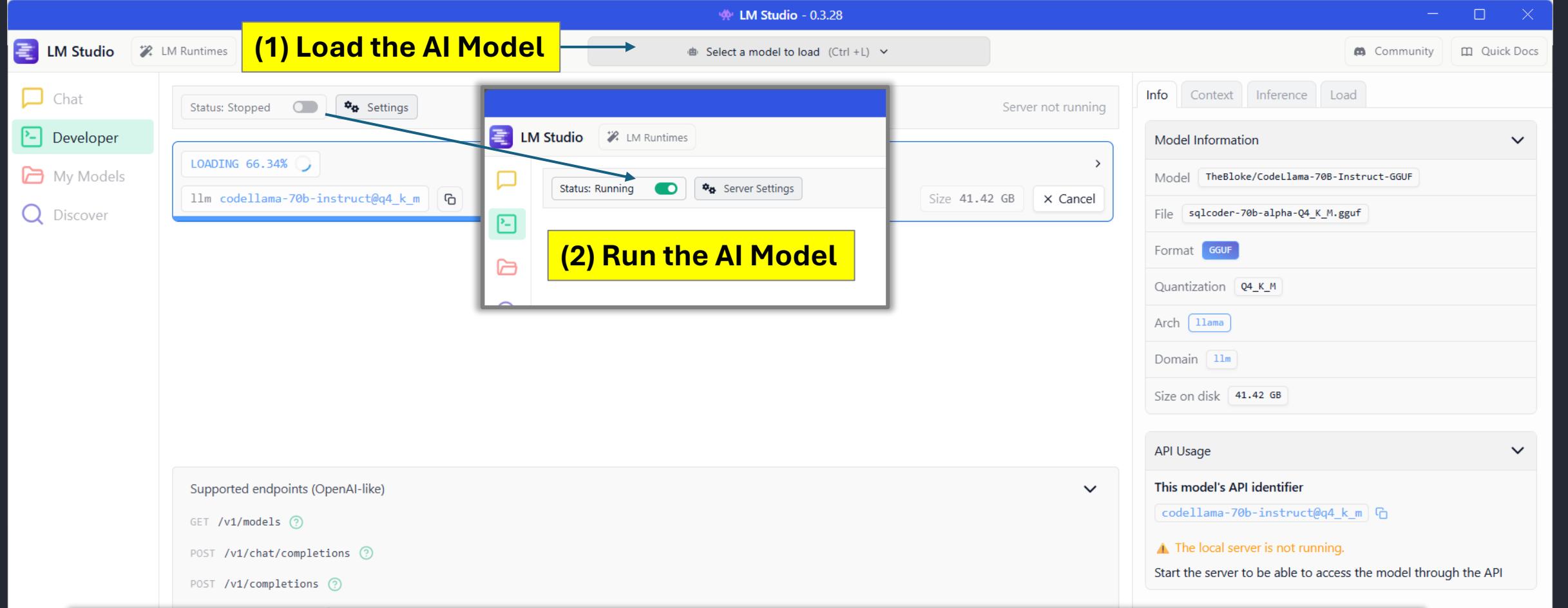
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The VERA login screen allows defined users to log in or create a new VERA user on the local PC.

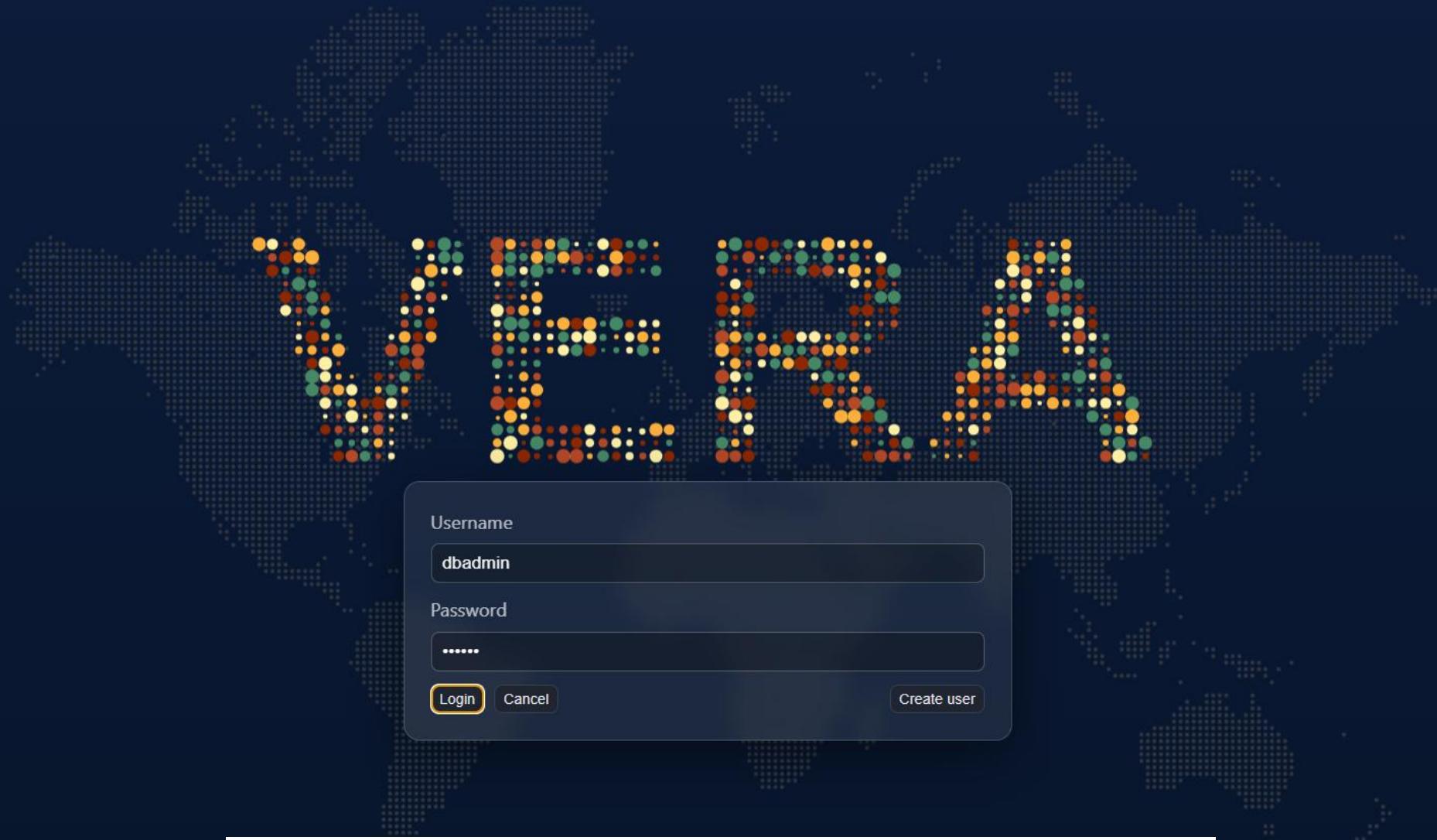


Recommended (but not mandatory) if you use your own on-premise AI model:

Download LM Studio from <https://lmstudio.ai>

In LM Studio, select a model that offers a good balance between quality and latency, supports long context lengths and performs well for schema-aware SQL tasks, for on-premise use.

Recommended model: **Qwen2.5-Coder-14B-Instruct-Q4_K_M.gguf**



The VERA username and password you create are not necessarily the same as those used to connect to the database, though you may choose to reuse them.



Filter

- Database EEVDB
 - Schemas (1008)
 - Stored Procedures (14)
 - System Tables (243)

Settings

User Setup

Editor Setup

Local files folder (Vera)

C:\Users\mogo5\Documents\DELME\VERA01\VERA

Choose...

vsqI client path

C:\Program Files\Vertica Systems\VSQI64\vsqI.exe

Choose...

Host

10.10.10.35 <<<<< The IP address of your Vertica cluster initiator node

Database

MYDB <<<<< The Database name

User

dbadmin <<<<< The Vertica username (not necessarily the same as the VERA username)

Password

***** <<<<< Vertica user passwd (not necessarily the same as the VERA user passwd)

Test DB connection

Local AI model address

http://127.0.0.1:1234/v1

Test AI Connection

OpenAI-compatible base URL (LM Studio, llama.cpp). Leave empty to disable. The app appends /chat/completions (and /models for testing).

Account

Create VERA user from these settings

Cancel

Save

Vera Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

New Save Open file... New tab Duplicate tab Close tab Rename Delete

Filter Data

V1 V2 v3 V4 V5 V6 V7 V8 V9

1 select 9;

Vera users manage their SQL queries in tabs.
Each tab can be saved, renamed, or duplicated.
Additionally, tabs can be customized
with emoji icons and colors for better visibility.

public
RAW
schema_01
sizecheck
SP_EXAMPLE
store

Tables (3)
store_dimension
store_orders_fact
store_sales_fact

Columns
date_key - int
product_key - int
product_version - int
store_key - int
promotion_key - int
customer_key - int
employee_key - int
pos_transaction_number - int
sales_quantity - int
sales_dollar_amount - int
cost_dollar_amount - int
gross_profit_dollar_amount - int
transaction_type - varchar(16)
transaction_time - time
tender_type - varchar(8)

Views (0)
TT
UNIQUE_SCHEMA
v_func
v_license

10 FROM product_dimension
11 WHERE department_description
12 IN ('Dairy') AS food
13 ORDER BY fat_content
14 LIMIT 5;
15

Save
Save as
Open file...
New tab
Duplicate tab
Close tab
Rename
Delete

Customize tab v

Color
Clear color

Icon
Choose Emoji...
Clear icon

Console Zoom: 100% - + Reset

[2025-11-02T21:18:42.183Z] Welcome to Vera. Install Vertica client for Windows first.
[2025-11-02T21:18:42.183Z] Expected vsqld.exe (typical): C:\Program Files\Vertica Systems\VSQLD64\vsqld.exe
[2025-11-02T21:18:42.183Z] Open Settings to configure paths and connection details.
[2025-11-02T21:18:42.331Z] Loaded schema cache from disk

Close my sessions Clear

Send New chat

Assistant

Ask about your data, e.g. "List top 10 customers by revenue for last month"

Status: Ready (Last activity: —) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Vera Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter Data DB (1008) 001 EM

New Save Switch Save As Rename Delete

DB (1008) 001 EM

customer_sales performance pol public RAW schema_01 sizecheck SP_EXAMPLE store

Tables (3)

- store_dimension
- store_orders_fact
- store_sales_fact

Columns

- date_key - int
- product_key - int
- product_version - int
- store_key - int
- promotion_key - int
- customer_key - int
- employee_key - int
- pos_transaction_number - int
- sales_quantity - int
- sales_dollar_amount - int
- cost_dollar_amount - int
- gross_profit_dollar_amount - int
- transaction_type - varchar(16)
- transaction_time - time
- tender_type - varchar(8)

Views (0)

- TT
- UNIQUE_SCHEMA
- v_func
- v_license

V1 V2 v3 V4 V5 V6 V7 V8 V9

1 select 9;

Assistant Close

Ask about your data, e.g. "List top 10 customers by revenue for last month"

➤ Vertical users can save and manage their SQL statements in different tab groups, called Workspaces. A Vera user can create multiple workspaces, each with a unique name, which are saved locally on the PC.

New Workspace

Enter a new workspace name:

My New Workspace Name

Cancel Create Workspace

Send New chat

Console Zoom: 100% - + Reset

[2025-11-02T21:18:42.183Z] Welcome to Vera. Install Vertica client for Windows first.

[2025-11-02T21:18:42.183Z] Expected vsqlexe (typical): C:\Program Files\Vertica Systems\VSQL64\vsqlexe.exe

[2025-11-02T21:18:42.183Z] Open Settings to configure paths and connection details.

[2025-11-02T21:18:42.331Z] Loaded schema cache from disk

Close my sessions Clear

Ask a question or instruct the assistant...

Status: Ready (Last activity: —) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
 - Tables (3)
 - call_center_dimension
 - online_page_dimension
 - online_sales_fact
 - Views (0)
 - performance_test
 - pol
 - public
 - RAW
 - schema_01
 - sizecheck
 - SP_EXAMPLE
 - store
 - TT
 - UNIQUE_SCHEMA
 - v_func
 - v_license
 - v_txindex
 - z_schema_10
 - z_schema_100
 - z_schema_1000
 - z_schema_101
 - z_schema_102
 - z_schema_103
 - z_schema_104
 - z_schema_105
 - z_schema_106
 - z_schema_107
 - z_schema_108
 - z_schema_109
 - z_schema_11
 - z_schema_110
 - ...

V1 V2 V3

1 SELECT * FROM "online_sales"."online_sales_fact" ORDER BY 1 LIMIT 1000;
2

Schema Tree Actions

- online_sales_fact
- online_sales.online_sales_fact
- Projections
- SELECT a sample
- Data entry

To query sample data from a table,
Right-click the table in the schema tree and select "SELECT a sample"

date_key	ship_date_key	product_key	product_version	customer_key	call_center_key	online_sales_fact
1	3	2290	4	90088	9330	1
1	3	2316	2	76346	6224	1
1	3	3083	1	93593	9795	1
1	4	2419	1	7140	2002	1

1	4	2161	1	29081	7855	1
1	5	2177	5	49975	1210	1
1	2	2679	3	40422	1425	1
1	5	1607	1	48097	2261	1
1	5	1607	1	48097	2261	1
1	5	3019	1	40276	1940	1
1	4	3311	1	56450	9704	1
1	4	1671	1	99703	9898	1
1	5	3325	1	14149	7404	1
1	3	1640	1	47908	1974	1
1	3	181	3	36482	8368	1
1	2	1702	1	87894	252	1

Console Zoom: 100% - + Reset Close my sessions Clear

```
[2025-10-09T21:45:41.437Z] Welcome to Vera. Install Vertica client for Windows first.  
[2025-10-09T21:45:41.438Z] Expected vsql.exe (typical): C:\Program Files\Vertica Systems\VSQl64\vsql.exe  
[2025-10-09T21:45:41.438Z] Open Settings to configure paths and connection details.  
[2025-10-09T21:45:41.501Z] Loaded schema cache from disk  
[2025-10-09T21:45:49.588Z] Starting schema refresh...  
[2025-10-09T21:45:49.588Z] Using vsql host=10.30.30.36 db=EEVDB user=dbadmin pw=***  
[2025-10-09T21:45:52.541Z] vsql exit code: 0
```

Assistant

Ask about your data, e.g. "List top 10 customers by revenue for last month"

Close

Send New chat

Ask a question or instruct the assistant...

Status: Ready (Last activity: 1800 ms) Host: 10.30.30.36 DB: EEVDB User: dbadmin

[Load to DB](#) [Open file](#) [Save to file](#) | [Add line](#) [Duplicate line](#) [Remove line](#)

To load data to a table in the database,
Right-click the table in the schema tree and select "Data entry"

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
- Tables (3)
 - call_center_dimension
 - online_page_dimension
 - online_sales_fact
 - Columns
 - sale_date_key - int
 - ship_date_key - int
 - product_key - int
 - product_version - int
 - customer_key - int
 - call_center_key - int
 - online_page_key - int
 - shipping_key - int
 - warehouse_key - int
 - promotion_key - int
 - pos_transaction_number - int
 - sales_quantity - int
 - sales_dollar_amount - float
 - ship_dollar_amount - float
 - net_dollar_amount - float
 - cost_dollar_amount - float
 - gross_profit_dollar_amount - float
 - transaction_type - varchar(16)
- Views (0)

performance_test

pol

public

RAW

schema_01

sizecheck

SP_EXAMPLE

store

V1 V2 V3

```
1 SELECT database_name FROM v_catalog.databases WHERE database_id = (SELECT current_database_id)
```

database_name

To ask the local AI model questions about your database and generate SQL queries that can be executed immediately after your approval, first select a table by clicking its checkbox in the schema tree, then type your question in Hebrew or English in the AI Assist panel.

Send New chat

What is the Vertica version?

Console Zoom: 100% - + Reset Close my sessions Clear

```
[2025-10-09T22:08:18.711Z] CREATE TABLE IF NOT EXISTS public.VERA_AI_RAG_0MELITZA_COLUMN_COMMENTS (
[2025-10-09T22:08:18.711Z]   table_schema  VARCHAR(128) NOT NULL,
[2025-10-09T22:08:18.711Z]   table_name    VARCHAR(128) NOT NULL,
[2025-10-09T22:08:18.711Z]   column_name   VARCHAR(128) NOT NULL,
[2025-10-09T22:08:18.711Z]   Description    VARCHAR(1000),
[2025-10-09T22:08:18.711Z]   last_updated_timestamp TIMESTAMP DEFAULT CLOCK_TIMESTAMP()
[2025-10-09T22:08:18.711Z] );
```

Status: Ready (Last activity: 1079 ms) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
- Tables (3)
 - call_center_dimension
 - online_page_dimension
 - online_sales_fact
 - Columns
 - sale_date_key - int
 - ship_date_key - int
 - product_key - int
 - product_version - int
 - customer_key - int
 - call_center_key - int
 - online_page_key - int
 - shipping_key - int
 - warehouse_key - int
 - promotion_key - int
 - pos_transaction_number - int
 - sales_quantity - int
 - sales_dollar_amount - float
 - ship_dollar_amount - float
 - net_dollar_amount - float
 - cost_dollar_amount - float
 - gross_profit_dollar_amount - float
 - transaction_type - varchar(16)
- Views (0)

performance_test

pol

public

RAW

schema_01

sizecheck

SP_EXAMPLE

store

V1 V2 V3

```
1 SELECT database_name FROM v_catalog.databases WHERE database_id = (SELECT current
2
```

Assistant

What is the Vertica version?

✓ Reply received

SQL Preview

```
SELECT version();
```

Append Override Run Cancel

The local AI model responds by offering options to run the generated query, append it to the SQL editor for further editing, or cancel the action.

Send New chat

Ask a question or instruct the assistant...

Console Zoom: 100% - + Reset Close my sessions Clear

```
[2025-10-09T22:10:08.029Z] CREATE TABLE IF NOT EXISTS public.VERA_AI_RAG_0MELITZA_COLUMN_COMMENTS (
[2025-10-09T22:10:08.029Z]   table_schema VARCHAR(128) NOT NULL,
[2025-10-09T22:10:08.029Z]   table_name  VARCHAR(128) NOT NULL,
[2025-10-09T22:10:08.029Z]   column_name VARCHAR(128) NOT NULL,
[2025-10-09T22:10:08.029Z]   Description   VARCHAR(1000),
[2025-10-09T22:10:08.029Z]   last_updated_timestamp TIMESTAMP DEFAULT CLOCK_TIMESTAMP()
[2025-10-09T22:10:08.029Z] );
```

Status: Ready (Last activity: 1079 ms) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
- Tables (3)
 - call_center_dimension
 - online_page_dimension
 - online_sales_fact
 - Columns
 - sale_date_key - int
 - ship_date_key - int
 - product_key - int
 - product_version - int
 - customer_key - int
 - call_center_key - int
 - online_page_key - int
 - shipping_key - int
 - warehouse_key - int
 - promotion_key - int
 - pos_transaction_number - int
 - sales_quantity - int
 - sales_dollar_amount - float
 - ship_dollar_amount - float
 - net_dollar_amount - float
 - cost_dollar_amount - float
 - gross_profit_dollar_amount - float
 - transaction_type - varchar(16)
- Views (0)

- performance_test
- pol
- public
- RAW
- schema_01
- sizecheck
- SP_EXAMPLE
- store

V1 V2 V3

```
1 SELECT version();
2
```

version

Vertica Analytic Database v24.2.0-1
(1 row)

After clicking "Run", the query generated by the local AI is appended to the editor and executed immediately.

Console Zoom: 100% - + Reset Close my sessions Clear

```
[2025-10-09T22:10:08.029Z] column_name VARCHAR(128) NOT NULL,
[2025-10-09T22:10:08.029Z] Description VARCHAR(1000),
[2025-10-09T22:10:08.029Z] last_updated_timestamp TIMESTAMP DEFAULT CLOCK_TIMESTAMP()
[2025-10-09T22:10:08.029Z] );
[2025-10-09T22:11:24.430Z] vsql: "C:\Program Files\Vertica Systems\VSQl64\vsq1.exe" -d EEVDB -h 10.30.30.36 -U dbadmin -w *** -f C:\Users\MGOLDB~1\AppData\Local\Temp\input_7ad9758e-5488-4e7a-bce6-1696ed3d3c83.sql
```

Assistant

What is the Vertica version?

✓ Reply received

SQL Preview

```
SELECT version();
```

Approved

Executing approved SQL...

Send New chat

Ask a question or instruct the assistant...

Status: Ready (Last activity: 989 ms)

Host: 10.30.30.36 DB: EEVDB User: dbadmin

Filter

 Database EEVDB

- | |
|----------------|
| Schemas (1008) |
| _ DEMO01 |
| _ foo |
| _ KEDEM |
| _ online_sales |
| _ Tables |

```
1 SELECT
2     pc.TABLE_SCHEMA,
3     pc.TABLE_NAME,
4     p.projection_name,
5     pc.table_column_name AS column_name,
6     pc.DATA_TYPE,
7     pc.ENCODING_TYPE,
8     pc.sort_position AS ORDER_BY,
```

```
CREATE PROJECTION online_sales.online_sales_fact /*+createtype(L)*/
```

- When a user right-clicks on one of the tables in the tree ...
 - Copy and paste the schema and/or table name to the editor
 - See projection details for the selected table
 - Automatically execute select * from selected_table limit 1000;
 - Open the generated screen for data entry activities for the selected table

```
sales_dollar_amount,  
ship_dollar_amount,  
net_dollar_amount,  
cost_dollar_amount,  
gross_profit_dollar_amount,  
transaction_type  
)  
AS  
SELECT online_sales_fact.sale_date_key,  
online_sales_fact.ship_date_key,  
online_sales_fact.product_key,  
online_sales_fact.product_version,  
online_sales_fact.customer_key,  
online_sales_fact.call_center_key,  
online_sales_fact.online_page_key,  
online_sales_fact.shipping_key,  
online_sales_fact.warehouse_key,  
online_sales_fact.promotion_key,
```

Console Zoom: 100% - + Reset

[Close my sessions](#)

```
[2025-10-09T22:10:08.029Z] );
[2025-10-09T22:11:24.430Z] vsal: "C:\Program Files\Vertica Systems\VSOL64\vsal.exe" -d EEVDB -h
```

Assistant

What is the Vertica version?

✓ Reply received

SQL Preview

```
SELECT version();
```

Approved

proved SQL...

[Send](#) [New chat](#)

Filter

Database EEVDB

Schemas (1008)

- DEMO01
- foo
- KEDEM
- online_sales
- performance_test
- pol
- public
- RAW
- schema_01
- sizecheck
- SP_EXAMPLE
- store

- Tables (3)
 - store_dimension
 - Columns
 - store_orders_fact
 - store_sales_fact
- Views (0)

- TT
- UNIQUE_SCHEMA
- v_func
- v_license
- v_txindex
- z_schema_10
- z_schema_100
- z_schema_1000
- z_schema_101
- z_schema_102
- z_schema_103
- z_schema_104
- z_schema_105
- z_schema_106
- z_schema_107
- z_schema_108
- z_schema_109
- z_schema_11
- z_schema_110

V1 V2 v3 V4 V5 V6 V7 V8 V9

```

1 -- vmart_query_02.sql
2 -- WHERE clause subquery
3 -- Asks for all orders placed by stores located in Massachusetts
4 -- and by vendors located elsewhere before March 1, 2003:
5 SELECT 2;
6 SELECT
7   SELECT
8     store.store_dimension
9       order
10      date_
11      FROM
12      store
13      WHERE
14        order
15        SEL
16        s
17        FRO
18        s
19      WHE
20        store_state = 'MA'
21      )
22      AND orders.vendor_key NOT IN (
23        SELECT

```

Assistant

Ask about your data, e.g. "List top 10 customers by revenue for last month"

Send New chat

Ask a question or instruct the assistant...

Console Zoom: 100% - + Reset

Close my sessions Clear

[2025-11-02T21:18:42.183Z] Welcome to Vera. Install Vertica client for Windows first.
 [2025-11-02T21:18:42.183Z] Expected vsql.exe (typical): C:\Program Files\Vertica Systems\VSQl64\vsql.exe
 [2025-11-02T21:18:42.183Z] Open Settings to configure paths and connection details.
 [2025-11-02T21:18:42.331Z] Loaded schema cache from disk

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
 - Tables (3)
 - call_center_dimensi
 - online_page_dimen
 - online_sales_fact
 - Views (0)
 - performance_test
 - pol
 - public
 - RAW
 - schema_01
 - sizecheck
 - SP_EXAMPLE
 - store
 - TT
 - UNIQUE_SCHEMA
 - v_func
 - v_license
 - v_txtdindex
 - z_schema_10
 - z_schema_100
 - z_schema_1000
 - z_schema_101
 - z_schema_102
 - z_schema_103
 - z_schema_104
 - z_schema_105
 - z_schema_106
 - z_schema_107
 - z_schema_108
 - z_schema_109
 - z_schema_111
 - z_schema_110

V1 V2 V3

```

1 SELECT
2   pc.TABLE_SCHEMA,
3   pc.TABLE_NAME,
4   p.projection_name,
5   pc.table_column_name AS column_name,
6   pc.DATA_TYPE,
7   pc.ENCODING_TYPE,
8   pc.sort_position AS ORDER_BY,

```

	sale_date_key	ship_date_key	product_key	product_version	customer_key	call_center_key	online_page_key	shipping_key	warehouse_key	promotion_key
Schema Tree Actions		3	2290	4	90088	9330	53	58118	94	62
online_sales_fact		3	2316	2	76346	6224	882	91102	74	70
online_sales.online_sales_fact		3	3083	1	93593	9795	560	2914	96	71
	4	2418	1	7140	3082	807	90964	94	86	
	5	331	3	11809	4493	141	60103	54	90	
	5	1323	4	32721	1885	634	47082	86	29	
	2	2501	1	39839	28	259	77029	21	95	
	5	822	1	40657	6623	970	83819	95	63	
	4	2161	1	29081	7855	22	24081	18	21	
				49975	1210	950	5805	54	9	
				40422	1425	316	40052	37	39	
				48097	2261	383	558	89	38	
				48097	2261	383	558	89	38	
				40276	1940	516	48312	12	38	
				56450	9704	517	35244	43	27	
				99703	9898	927	45918	72	31	
				14149	7404	999	79221	51	68	
				47908	1974	558	53323	61	54	
				36482	8368	259	74242	10	89	
				87804	253	138	34722	56	39	
				60166	8650	507	37734	59	39	
				288	6879	257	52362	47	81	
	1	5	2784	3	77474	4898	557	21845	65	10
	1	4	260	1	46370	167	437	48922	81	64
	1	5	2374	1	63924	7744	899	13571	48	20
	1	6	289	4	93853	6455	427	64440	81	43
	1	2	2859	2	57569	9672	883	22017	95	40
	1	3	175	1	19135	6415	934	47377	27	82
	1	4	1928	1	38045	3539	150	15619	84	92
	1	4	1369	1	58339	4366	461	17128	82	23
	1	3	665	3	7181	5496	844	77079	59	89

Console Zoom: 100% - + Reset Close my sessions Clear

[2025-10-09T21:45:41.437Z] Welcome to Vera. Install Vertica client for Windows first.

Status: Ready (Last activity: 1676 ms) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Vera

Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
 - Tables (3)
 - call_center_dimension
 - online_page_dimension
 - online_sales_fact
 - Columns
 - sale_date_key - int
 - ship_date_key - int
 - product_key - int
 - product_version - int
 - customer_key - int
 - call_center_key - int
 - online_page_key - int
 - shipping_key - int
 - warehouse_key - int
 - promotion_key - int
 - pos_transaction_number - int
 - sales_quantity - int
 - sales_dollar_amount - decimal
 - ship_dollar_amount - decimal
 - net_dollar_amount - decimal
 - cost_dollar_amount - decimal
 - gross_profit_dollar_amount - decimal
 - transaction_type - string
- Views (0)
- performance_test
- pol
- public
- RAW
- schema_01
- sizecheck
- SP_EXAMPLE
- store

V1 V2 V3

```

1 SELECT
2   pc.TABLE_SCHEMA,
3   pc.TABLE_NAME,
4   p.projection_name,
5   pc.table_column_name AS column_name,
6   pc.DATA_TYPE,
7   pc.ENCODING_TYPE,
8   pc.sort_position AS ORDER_BY,
  
```

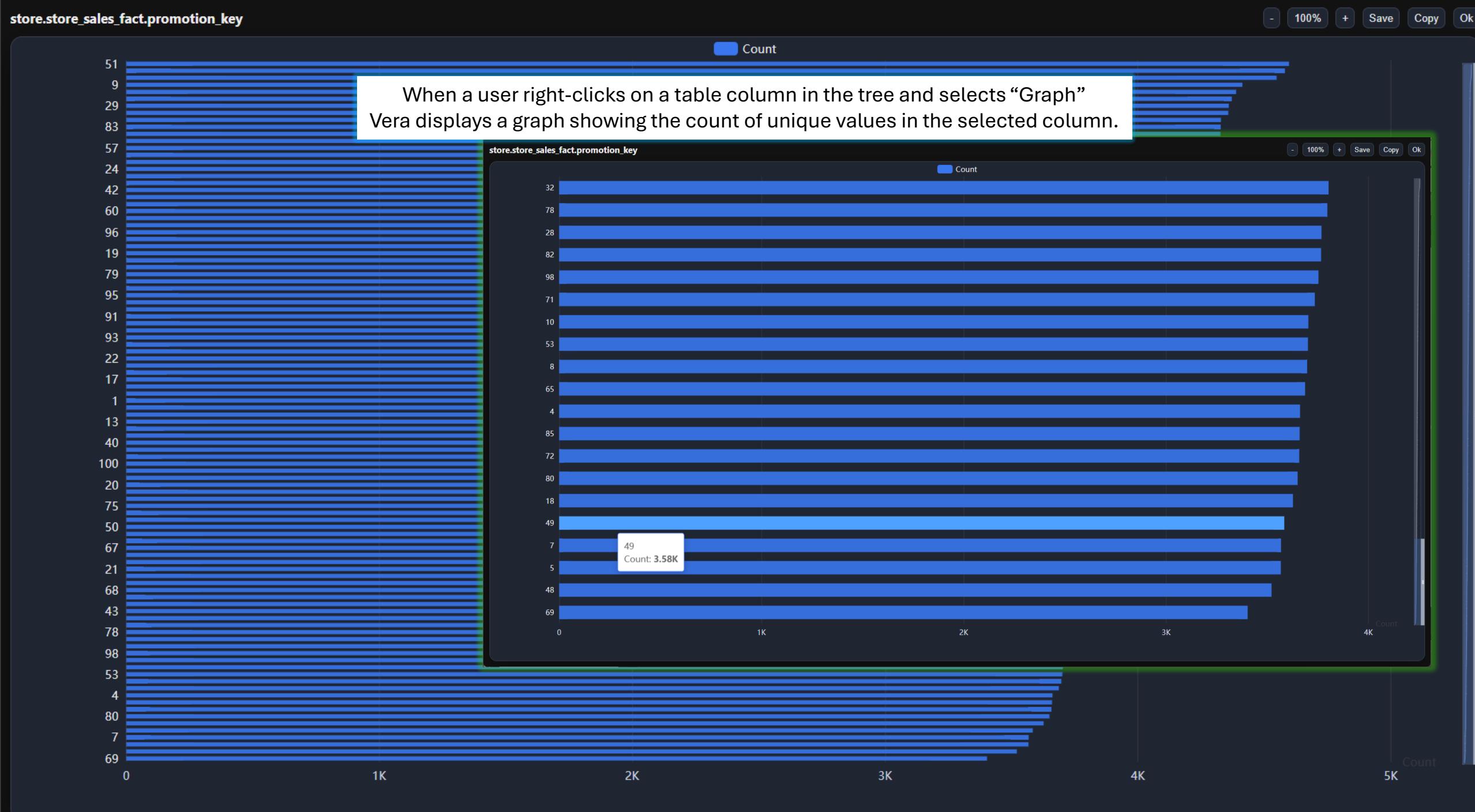
key	online_page_key	shipping_key	warehouse_key	promotion_key	pos_transaction_number	sales_quantity	sales_dollar_amount	ship_dollar_amount
30	53	58118	94	62	46	2	480	
24	882	91102	74	70	27	8	187	
95	560	2914	96	7	129	6	289	
82	807	90964	94	86	88	1	176	
93	141	60103	54	90	178	1	190	
85	634	47082	86	29	170	5	146	
28	259	77029	21	95	190	4	348	
23	970	83819	95	63	3	5	475	
55	22	24081	18	1	9	6	251	
10	950	5805	54	9	60	6	106	
25	316	40052	37	39	94	10	-317	
61	383	558	89	38	21	3	505	
61	383	558	89	38	21	3	505	
516	48312	12	38	105	1	325		
517	35244	43	27	128	6	279		
927	45918	72	31	82	1	263		
999	79221	51	68	48	6	271		
558	53323	61	54	100	10	310		
44	899	13571	48	20	24	5	215	
55	427	64440	81	43	177	8	471	
72	883	22017	95	46	97	2	158	
15	934	47377	27	82	93	7	335	
39	150	15619	84	92	44	4	-135	
66	461	17128	82	23	103	8	229	
96	844	77079	59	89	97	5	422	

When a user right-clicks on one of the table columns in the tree ...

- Copy and paste the schema, table, and/or column name to the editor window
- Draw a graph of the selected column's unique values count

Console Zoom: 100% - + Reset Close my sessions Clear [2025-10-09T21:45:41.437Z] Welcome to Vera. Install Vertical client for Windows first.

Status: Ready (Last activity: 1676 ms) Host: 10.30.30.36 DB: EEVDB User: dbadmin



Vera Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter

Database EEVDB

- Schemas (1008)
 - DEMO01
 - foo
 - KEDEM
 - online_sales
 - performance_test
 - pol
 - public
 - RAW
 - schema_01
 - sizecheck
 - SP_EXAMPLE
 - store
- Tables (3)
 - store_dimension
 - store_orders_fact
 - store_sales_fact
 - Columns
 - date_key - int
 - product_key - int
 - product_version - int
 - store_key - int
 - promotion_key - int
 - customer_key - int
 - employee_key - int
 - pos_transaction_number - int
 - sales_quantity - int
 - sales_dollar_amount - int
 - cost_dollar_amount - int
 - gross_profit_dollar_amount - int
 - transaction_type - varchar(16)
 - transaction_time - time
 - tender_type - varchar(8)
- Views (0)

TT
UNIQUE_SCHEMA
v_func
v_license

Chart: sales_dollar_amount, cost_dollar_amount, store.store_sales_fact gross_profit_dollar_amount, transaction_type

Bar Full Window Refresh Save Copy

sales_dollar_amount

cost_dollar_amount

gross_profit_dollar_amount

transaction_type

purchase return

Schema Tree Actions Sort Value Desc Top K 30

sales_dollar_amount
store_sales_fact.sales_dollar_amount
store.store_sales_fact.sales_dollar_amount

Graph
Graph selected columns

Console Zoom: [2025-11-02T21:18:42.183Z] Expected vsqld.exe (typical): C:\Program Files\Vertica Systems\VSQLD64\vsqld.exe [2025-11-02T21:18:42.183Z] Open Settings to configure paths and connection details. [2025-11-02T21:18:42.331Z] Loaded schema cache from disk

Assistant

Ask about your data, e.g. "List top 10 customers by revenue for last month"

When you right-click on multiple table columns in the tree and select “Graph selected columns”, Vera displays a graph showing chart options for the selected columns.

Filter *product_dimension.*

Schema

Table

product_dimension

Column

OK

Cancel

duct_key - int
 duct_version - int
 duct_description - varchar(128)
 number - char(32)
 category_description - char(32)

- department_description - char(32)
- package_type_description - char(32)
- package_size - char(32)
- fat_content - int
- diet_type - char(32)
- weight - int
- weight_units_of_measure - char(32)
- shelf_width - int
- shelf_height - int
- shelf_depth - int
- product_price - int
- product_cost - int
- lowest_competitor_price - int
- highest_competitor_price - int
- average_competitor_price - int
- discontinued_flag - int

Views (0)

Stored Procedures (14)

System Tables (243)

V1 V2 v3 V4 V5 V6 V7 V8 V9 Chart 10

1 SELECT fat_content

 7 ORDER BY fat_content
 8 LIMIT 5;

➤ Here is an example of how to filter the schema tree to locate a specific Schema, Table, or Column.

TOP PERFORMANCE ISSUES

Performance Analysis

Issue: Analyzing Txn_ID: 45035996277478845 / Stmt_ID: 1 | Run Time: 2025-11-04 12:20:56

Assessment: ⓘ INFO

Recommendation: This report analyzes the current profiled query.

Issue: Query Duration: .1 seconds

Assessment: ✓ GOOD

Recommendation: Review other findings for optimization opportunities.

Issue: Memory Used: 2,684.2 MB

Assessment: ⚠ WARNING

Recommendation: High memory usage can lead to spills. Check for inefficient joins or aggregations.

Issue: Rows Processed: 3,020

Assessment: ⚠ WARNING

Recommendation: High ratio of processed to output rows suggests poor selectivity. Add more specific filters or improve projection design.

Issue: Spilled to Disk: No

Assessment: ✓ GOOD

Recommendation: Spills severely degrade performance. Increase memory for the resource pool or optimize the query.

Issue: AT QUERY TIME: Optimizer detected AUTO_PROJECTION_USED for The optimizer ran a query using auto-projections

Assessment: 🔥 CRITICAL

Recommendation: Consider creating projections or run database designer on table public.product_dimension

Issue: Query contains potentially inefficient operators (e.g., IN, OR, NOT IN).

Assessment: ⚠ WARNING

Recommendation: Use '=' and JOIN instead of IN, OR, NOT IN, or != to enable better join strategies.

(28 rows)

Console Zoom: 100% - + Reset

Close my sessions

Clear

[2025-11-04T10:02:02.524Z] Welcome to Vera. Install Vertica client for Windows first.

[2025-11-04T10:02:02.526Z] Expected vsql.exe (typical): C:\Program Files\Vertica Systems\VS0L64\vsql.exe

The options for performing a query profile are:

1) Query Profile in the active TAB:

Profiles the query currently displayed in the active tab without requiring a separate label.

2) Profile query with label:

Allows you to enter a label to identify the query to profile.

All EXPLAIN and PROFILE options are accessible under the Run SQL menu.

Console Zoom: 100% - + Reset Close my sessions Clear

```
[2025-11-04T10:10:31.558Z] Parsed: schemas=1008 tables=2118 views=12 stored_procs=14 sys_tables=243 columns=3000 sp_args=23
[2025-11-04T10:10:31.656Z] Saved schema cache: ok
[2025-11-04T10:10:31.656Z] Schema refresh done.
[2025-11-04T10:10:43.346Z] Analyze Query Profile: preparing local folder C:\Users\mogo5\Documents\DELME\VERA01\VERA
[2025-11-04T10:10:43.398Z] Analyze Query Profile: scripts copied to local folder (tab=\i
'C:/Users/mogo5/Documents/DELME/VERA01/VERA/profile_query_in_tab.sql', label=\i
'C:/Users/mogo5/Documents/DELME/VERA01/VERA/profile_script.sql').
[2025-11-04T10:10:43.411Z] Analyze Query Profile: label read error ENOENT: no such file or directory, open
'C:\ProgramData\VERA\Queries_label.json'
```

Send New chat

Ask a question or instruct the assistant...

Filter *.product_dimension.*

Database EEVDB

Schemas (1)

public

Tables (1)

product_dimension

Columns

- product_key - int
- product_version - int
- product_description - varchar(128)
- sku_number - char(32)
- category_description - char(32)
- department_description - char(32)
- package_type_description - char(32)
- package_size - char(32)
- fat_content - int
- diet_type - char(32)
- weight - int
- weight_units_of_measure - char(32)

V1 V2 v3 V4 V5 V6 V7 V8 V9 Chart 10

```

1 SELECT fat_content
2 FROM (
3   SELECT DISTINCT fat_content
4   FROM product_dimension
5   WHERE department_description
6   IN ('Dairy') ) AS food
7   ORDER BY fat_content
8   LIMIT 5;

```

TOP PERFORMANCE ISSUES ##**Performance Analysis**

Issue: Analyzing Txn_ID: 45035996277478845 / Stmt_ID: 1 | Run Time: 2025-11-04 12:20:56

Assessment: ⓘ INFO

Recommendation: This report analyzes the current profiled query.

Issue: Query Duration: .1 seconds

Assessment: ✓ GOOD

Recommendation: Review other findings for optimization opportunities.

Issue: Memory Used: 2,684.2 MB

Assessment: ⚠ WARNING

Recommendation: High memory usage can lead to spills. Check for inefficient joins or aggregations.

Issue: Rows Processed: 3,020

Assessment: ⚠ WARNING

Recommendation: High ratio of processed to output rows suggests poor selectivity. Add more specific filters or improve projection design.

Issue: Spilled to Disk: No

Assessment: ✓ GOOD

Recommendation: Spills severely degrade performance. Increase memory for the resource pool or optimize the query.

Issue: AT QUERY TIME: Optimizer detected AUTO_PROJECTION_USED for The optimizer ran a query using auto-projections

Assessment: 🔥 CRITICAL

Recommendation: Consider creating projections or run database designer on table public.product_dimension

Issue: Query contains potentially inefficient operators (e.g., IN, OR, NOT IN).

Assessment: ⚠ WARNING

Recommendation: Use '=' and JOIN instead of IN, OR, NOT IN, or != to enable better join strategies.

(28 rows)

Console Zoom: 100% - + Reset

Close my sessions

Clear

[2025-11-04T10:02:02.524Z] Welcome to Vera. Install Vertica client for Windows first.

[2025-11-04T10:02:02.526Z] Expected vsqlexe (typical): C:\Program Files\Vertica Systems\VSQLEX64\vsqlexe

Vera

Workspace_01 Refresh A 4 Run SQL Visual 6 Settings

Filter

Database EEVDB
Schemas (1013)
Stored Procedures (14)
System Tables (243)

V1 V2 3 (1) Generate Network data (2) Query for Network graph 5

```

1 -- =====
2 -- Sigma Demo Dataset for Network graph
3 -- =====
4 \set ON_ERROR_STOP on
5 \set DEMO_ROWS 120          -- persons to generate (tweak freely)
6 \set DAYS_BACK 10           -- create calls across the last N days
7
8 ****
9 | 0) Clean up
10 ****
11 DROP SCHEMA IF EXISTS vera_cdr_demo CASCADE;
12 CREATE SCHEMA vera_cdr_demo;
13
14 ****
15 | 1) Seed rows (1...:DEMO_ROWS)
16 ****
17 CREATE TABLE vera_cdr_demo.my_generated_data (
18     row_id INT PRIMARY KEY,
19     insdt TIMESTAMP      DEFAULT SYSDATE(),
20     insusr VARCHAR(128)   DEFAULT CURRENT_USER(),
21     upddt TIMESTAMP      DEFAULT SYSDATE(),
22     updusr VARCHAR(128)   DEFAULT CURRENT_USER()

```

Run & graph query Ctrl+G
Multi columns graph
Network graph
3D Geo graph

1 Sigma Network Add tabs
2 Air-Bird Collision Risk Visualizer Add tabs

050108357
Degree 22
In 12
Out 10
Size 10.2
Coords 3197.7410, -1536.7571
Color #4B5563

Console Zoom: 80% - + Reset Close my sessions Clear

[2025-11-19T07:12:20.431Z] Welcome to Vera. Install Vertica client for Windows first.
[2025-11-19T07:12:20.431Z] Expected vsql.exe (typical): C:\Program Files\Vertica Systems\VSQL64\vsql.exe
[2025-11-19T07:12:20.431Z] Open Settings to configure paths and connection details.
[2025-11-19T07:12:20.513Z] Loaded schema cache from disk

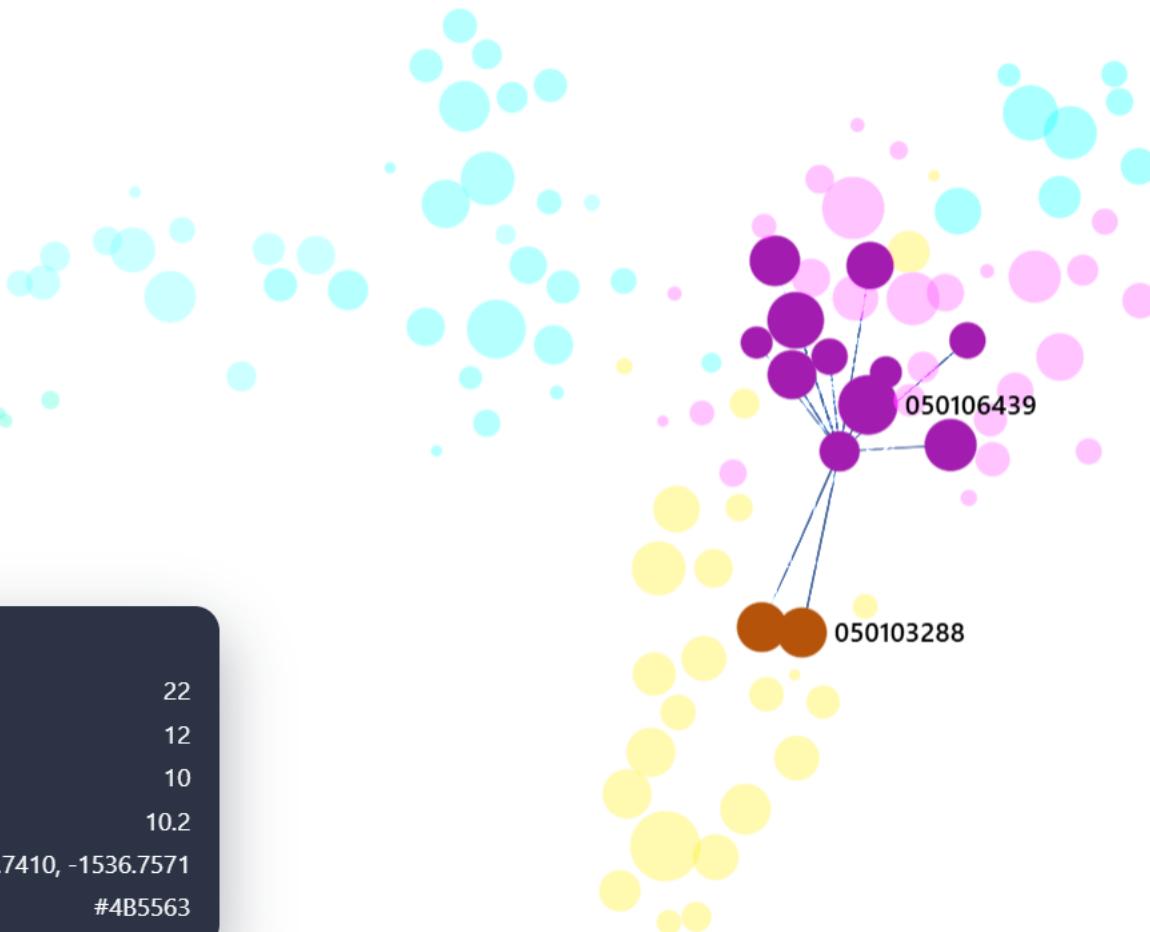
Status: Ready (Last activity: -- / -- Rows output) Host: 10.30.30.36 DB: EEVDB User: dbadmin

Network graph - 🌟 (2) Query for Network graph

110 nodes | 1,000 edges | 8.34% density | Force layout Source: source • Target: target • Weight: weight

Edge 0.65px | Opacity 0.46 | Labels auto | Raw graph | Colors categorical | Size degree | Scale 1.00x | Pictograms hidden | Lines gray

Minimum columns: id, label (optional), longitude, latitude. More info: <https://www.sigmaj.org/>



Graph controls

Edge thickness	0.65 px	Edge opacity	0.46
Network lines color	Thin gray	Network lines label	Hidden
Defaults to thin gray edges to reduce clutter.	Show labels from the query or computed weights.		
Show labels	Auto	Graph mode	Raw
Node color rule	Communities	Node size rule	Degree driven
Uses node_color or detected communities when available.	Switch between degree-based sizing or node_size.		
Node footprint	1.00x	Node pictogram	Hidden
Adjust the overall node radius for zoomed-out views.	Highlights node_shape/node_icon inputs when present.		
Node border	Actions		

1 Demo HELP Logout

Vera Workspace_01 Refresh Analyze Run SQL Visual Settings

Filter Database EEVDB Schemas (1013) Stored Procedures (14) System Tables (243)

4 3 5 6 7 2

V1 V2 (1) Generate data for Geo graph (2) Query for Geo graph

```

1 -- =====
2 -- Generate demo data for the "visual" --> "3D Geo graph"
3 -- Per-second 3D tracks for Cesium/CZML
4 -- Continuous motion, compact generation, Vertica-safe
5 -- =====
6 \set ON_ERROR_STOP on
7
8 -- 0) Clean up
9 DROP SCHEMA IF EXISTS vera_madar_demo CASCADE;
10 CREATE SCHEMA vera_madar_demo;
11
12 -- 1) Parameters (tune here)
13 CREATE LOCAL TEMP TABLE vera_madar_demo_params ON COMMIT PRESERVE ROWS AS
14 SELECT
15   8 ::INT AS na,          -- aircraft
16   5 ::INT AS nf,          -- flocks
17   12 ::INT AS bpf,         -- birds per flock
18   600 ::INT AS seconds,    -- duration (seconds) << keep small for speed
19   40.643905::NUMERIC(9,6) AS lat_min,
20   40.92::NUMERIC(9,6) AS lat_max,
21   -73.779653::NUMERIC(9,6) AS lon_min,
22   -73.99::NUMERIC(9,6) AS lon_max;

```

Run & graph query Ctrl+G
Multi columns graph
Network graph
3D Geo graph

3D Geo graph - (2) Query for Geo graph

Interactive CZML viewer (offline)
Objects: 68
Rows used: 40800/40800
Time span: 2025-11-18T23:46:01.000Z → 2025-11-18T23:56:00.000Z
Duration: 10.0 minutes
Columns: id=id, ts=iso_ts, lat=lat, lon=lon, alt=alt_m
aircraft(8)
bird(60)

Generated: 2025-11-19T08:01:07.268Z

- Demo query for the "visual" --> "3D Geo graph" SELECT o.serial AS id, o.obj_type AS obj_type, TO_CWML(p.ts, 'YYYY-MM-DD'T'HH:MM:SS'Z') AS iso_ts, p.lat, p.lon, p.alt_m FROM vera_madar_demo.vera_madar_demo_objects p JOIN vera_madar_demo.vera_madar_demo_objects o ON o.object_id = p.object_id ORDER BY o.serial, p.ts LIMIT 50000

10x Nov 18 2025 23:56:00 UTC 23:46:00.000 Nov 18 2025 23:56:00.000 Nov 18 2025 23:56:00.000 Nov 18 2025 23:54:00.000 Nov 18 2025 23:52:00.000 Nov 18 2025 23:50:00.000 Nov 18 2025 23:48:00.000 Nov 18 2025 23:46:00.000 Nov 18 2025 23:44:00.000 Nov 18 2025 23:42:00.000 Nov 18 2025 23:40:00.000 Nov 18 2025 23:38:00.000 Nov 18 2025 23:36:00.000 Nov 18 2025 23:34:00.000 Nov 18 2025 23:32:00.000 Nov 18 2025 23:30:00.000 Nov 18 2025 23:28:00.000 Nov 18 2025 23:26:00.000 Nov 18 2025 23:24:00.000 Nov 18 2025 23:22:00.000 Nov 18 2025 23:20:00.000 Nov 18 2025 23:18:00.000 Nov 18 2025 23:16:00.000 Nov 18 2025 23:14:00.000 Nov 18 2025 23:12:00.000 Nov 18 2025 23:10:00.000 Nov 18 2025 23:08:00.000 Nov 18 2025 23:06:00.000 Nov 18 2025 23:04:00.000 Nov 18 2025 23:02:00.000 Nov 18 2025 23:00:00.000 Nov 18 2025 22:58:00.000 Nov 18 2025 22:56:00.000 Nov 18 2025 22:54:00.000 Nov 18 2025 22:52:00.000 Nov 18 2025 22:50:00.000 Nov 18 2025 22:48:00.000 Nov 18 2025 22:46:00.000 Nov 18 2025 22:44:00.000 Nov 18 2025 22:42:00.000 Nov 18 2025 22:40:00.000 Nov 18 2025 22:38:00.000 Nov 18 2025 22:36:00.000 Nov 18 2025 22:34:00.000 Nov 18 2025 22:32:00.000 Nov 18 2025 22:30:00.000 Nov 18 2025 22:28:00.000 Nov 18 2025 22:26:00.000 Nov 18 2025 22:24:00.000 Nov 18 2025 22:22:00.000 Nov 18 2025 22:20:00.000 Nov 18 2025 22:18:00.000 Nov 18 2025 22:16:00.000 Nov 18 2025 22:14:00.000 Nov 18 2025 22:12:00.000 Nov 18 2025 22:10:00.000 Nov 18 2025 22:08:00.000 Nov 18 2025 22:06:00.000 Nov 18 2025 22:04:00.000 Nov 18 2025 22:02:00.000 Nov 18 2025 22:00:00.000 Nov 18 2025 21:58:00.000 Nov 18 2025 21:56:00.000 Nov 18 2025 21:54:00.000 Nov 18 2025 21:52:00.000 Nov 18 2025 21:50:00.000 Nov 18 2025 21:48:00.000 Nov 18 2025 21:46:00.000 Nov 18 2025 21:44:00.000 Nov 18 2025 21:42:00.000 Nov 18 2025 21:40:00.000 Nov 18 2025 21:38:00.000 Nov 18 2025 21:36:00.000 Nov 18 2025 21:34:00.000 Nov 18 2025 21:32:00.000 Nov 18 2025 21:30:00.000 Nov 18 2025 21:28:00.000 Nov 18 2025 21:26:00.000 Nov 18 2025 21:24:00.000 Nov 18 2025 21:22:00.000 Nov 18 2025 21:20:00.000 Nov 18 2025 21:18:00.000 Nov 18 2025 21:16:00.000 Nov 18 2025 21:14:00.000 Nov 18 2025 21:12:00.000 Nov 18 2025 21:10:00.000 Nov 18 2025 21:08:00.000 Nov 18 2025 21:06:00.000 Nov 18 2025 21:04:00.000 Nov 18 2025 21:02:00.000 Nov 18 2025 21:00:00.000 Nov 18 2025 20:58:00.000 Nov 18 2025 20:56:00.000 Nov 18 2025 20:54:00.000 Nov 18 2025 20:52:00.000 Nov 18 2025 20:50:00.000 Nov 18 2025 20:48:00.000 Nov 18 2025 20:46:00.000 Nov 18 2025 20:44:00.000 Nov 18 2025 20:42:00.000 Nov 18 2025 20:40:00.000 Nov 18 2025 20:38:00.000 Nov 18 2025 20:36:00.000 Nov 18 2025 20:34:00.000 Nov 18 2025 20:32:00.000 Nov 18 2025 20:30:00.000 Nov 18 2025 20:28:00.000 Nov 18 2025 20:26:00.000 Nov 18 2025 20:24:00.000 Nov 18 2025 20:22:00.000 Nov 18 2025 20:20:00.000 Nov 18 2025 20:18:00.000 Nov 18 2025 20:16:00.000 Nov 18 2025 20:14:00.000 Nov 18 2025 20:12:00.000 Nov 18 2025 20:10:00.000 Nov 18 2025 20:08:00.000 Nov 18 2025 20:06:00.000 Nov 18 2025 20:04:00.000 Nov 18 2025 20:02:00.000 Nov 18 2025 20:00:00.000 Nov 18 2025 19:58:00.000 Nov 18 2025 19:56:00.000 Nov 18 2025 19:54:00.000 Nov 18 2025 19:52:00.000 Nov 18 2025 19:50:00.000 Nov 18 2025 19:48:00.000 Nov 18 2025 19:46:00.000 Nov 18 2025 19:44:00.000 Nov 18 2025 19:42:00.000 Nov 18 2025 19:40:00.000 Nov 18 2025 19:38:00.000 Nov 18 2025 19:36:00.000 Nov 18 2025 19:34:00.000 Nov 18 2025 19:32:00.000 Nov 18 2025 19:30:00.000 Nov 18 2025 19:28:00.000 Nov 18 2025 19:26:00.000 Nov 18 2025 19:24:00.000 Nov 18 2025 19:22:00.000 Nov 18 2025 19:20:00.000 Nov 18 2025 19:18:00.000 Nov 18 2025 19:16:00.000 Nov 18 2025 19:14:00.000 Nov 18 2025 19:12:00.000 Nov 18 2025 19:10:00.000 Nov 18 2025 19:08:00.000 Nov 18 2025 19:06:00.000 Nov 18 2025 19:04:00.000 Nov 18 2025 19:02:00.000 Nov 18 2025 19:00:00.000 Nov 18 2025 18:58:00.000 Nov 18 2025 18:56:00.000 Nov 18 2025 18:54:00.000 Nov 18 2025 18:52:00.000 Nov 18 2025 18:50:00.000 Nov 18 2025 18:48:00.000 Nov 18 2025 18:46:00.000 Nov 18 2025 18:44:00.000 Nov 18 2025 18:42:00.000 Nov 18 2025 18:40:00.000 Nov 18 2025 18:38:00.000 Nov 18 2025 18:36:00.000 Nov 18 2025 18:34:00.000 Nov 18 2025 18:32:00.000 Nov 18 2025 18:30:00.000 Nov 18 2025 18:28:00.000 Nov 18 2025 18:26:00.000 Nov 18 2025 18:24:00.000 Nov 18 2025 18:22:00.000 Nov 18 2025 18:20:00.000 Nov 18 2025 18:18:00.000 Nov 18 2025 18:16:00.000 Nov 18 2025 18:14:00.000 Nov 18 2025 18:12:00.000 Nov 18 2025 18:10:00.000 Nov 18 2025 18:08:00.000 Nov 18 2025 18:06:00.000 Nov 18 2025 18:04:00.000 Nov 18 2025 18:02:00.000 Nov 18 2025 18:00:00.000 Nov 18 2025 17:58:00.000 Nov 18 2025 17:56:00.000 Nov 18 2025 17:54:00.000 Nov 18 2025 17:52:00.000 Nov 18 2025 17:50:00.000 Nov 18 2025 17:48:00.000 Nov 18 2025 17:46:00.000 Nov 18 2025 17:44:00.000 Nov 18 2025 17:42:00.000 Nov 18 2025 17:40:00.000 Nov 18 2025 17:38:00.000 Nov 18 2025 17:36:00.000 Nov 18 2025 17:34:00.000 Nov 18 2025 17:32:00.000 Nov 18 2025 17:30:00.000 Nov 18 2025 17:28:00.000 Nov 18 2025 17:26:00.000 Nov 18 2025 17:24:00.000 Nov 18 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3D Geo graph -💡 (2) Query for Geo graph

Interactive CZML viewer (offline)

Objects: 68

Rows used: 40800/40800

Time span: 2025-11-18T23:46:01.000Z →
2025-11-18T23:56:00.000Z

Duration: 10.0 minutes

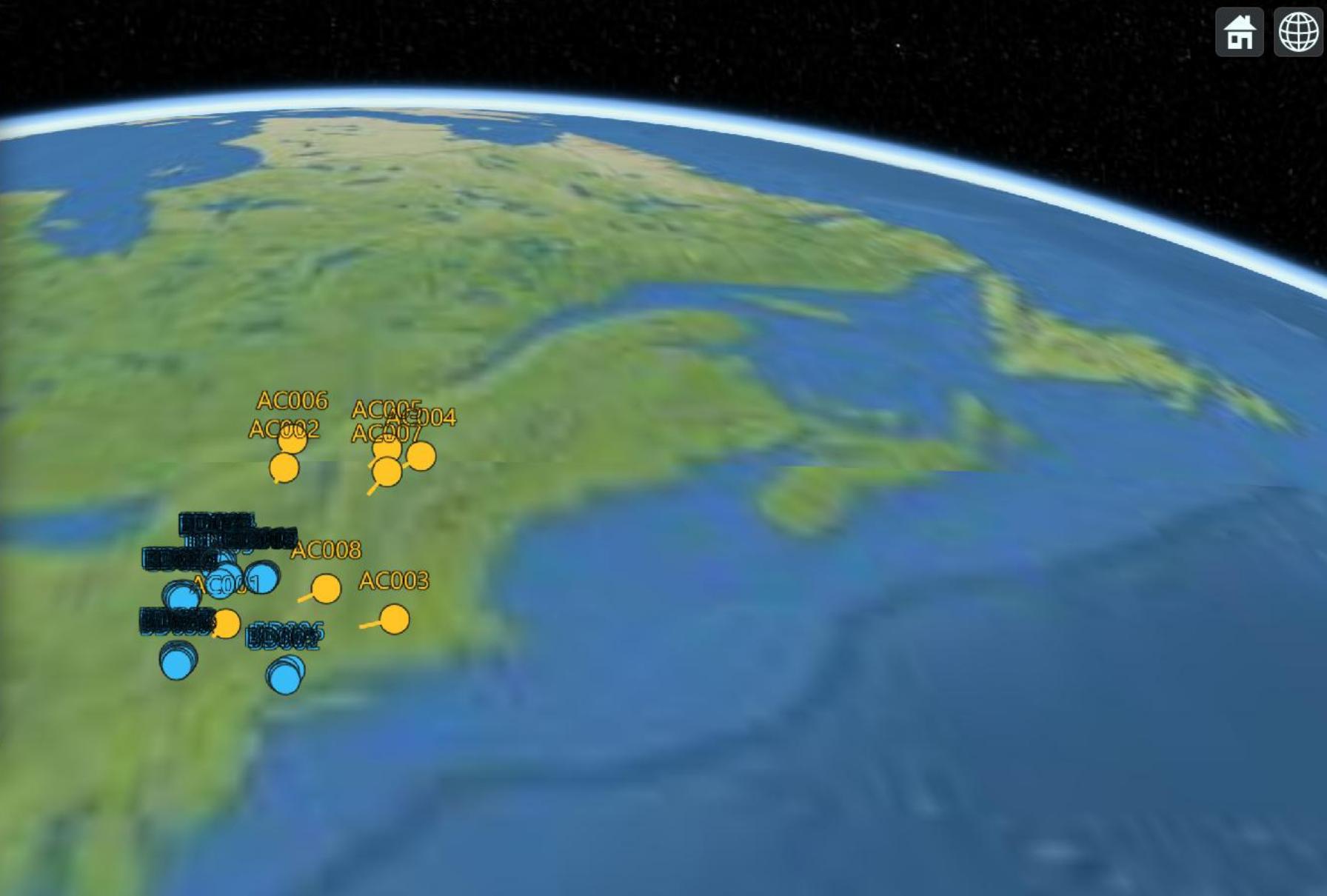
Columns: id=id, ts=iso_ts, lat=lat, lon=lon,
alt=alt_m

aircraft(8)

bird(60)

Generated: 2025-11-19T08:01:07.268Z

```
-- Demo query for the "Visual" --> "3D Geo graph" SELECT o.serial AS id, o.obj_type AS obj_type, TO_CHAR(p.ts, 'YYYY-MM-DD"T"HH24:MI:SS"Z") AS iso_ts, p.lat, p.lon, p.alt_m FROM vera_madar_demo.positions p JOIN vera_madar_demo.objects o ON o.object_id = p.object_id ORDER BY o.serial, p.ts LIMIT 50000
```



Vera Workspace_01 Refresh Analyze Run SQL View Settings HELP Logout

Filter Database EEVDB

Schemas (1008)

- DEMO01
- foo
- KEDEM
- online_sales
 - Tables (3)
 - call_center
 - online_page_dimension
 - online_sales_fact
 - Views (0)
- performance_test
- pol
- public
- RAW
- schema_01
- sizecheck
- SP_EXAMPLE
- store
- TT
- UNIQUE_SCHEMA
- v_func
- v_license
- v_txindex
- z_schema_10
- z_schema_100
- z_schema_1000
- z_schema_101
- z_schema_102
- z_schema_103
- z_schema_104
- z_schema_105
- z_schema_106
- z_schema_107
- z_schema_108
- z_schema_109
- z_schema_11
- z_schema_110
- z_schema_111

Query Profile V3 V4 V5 V6 V7 V8 V9 Chart 10

SELECT ANALYZE_WORKLOAD('online_sales.online_sales_fact');

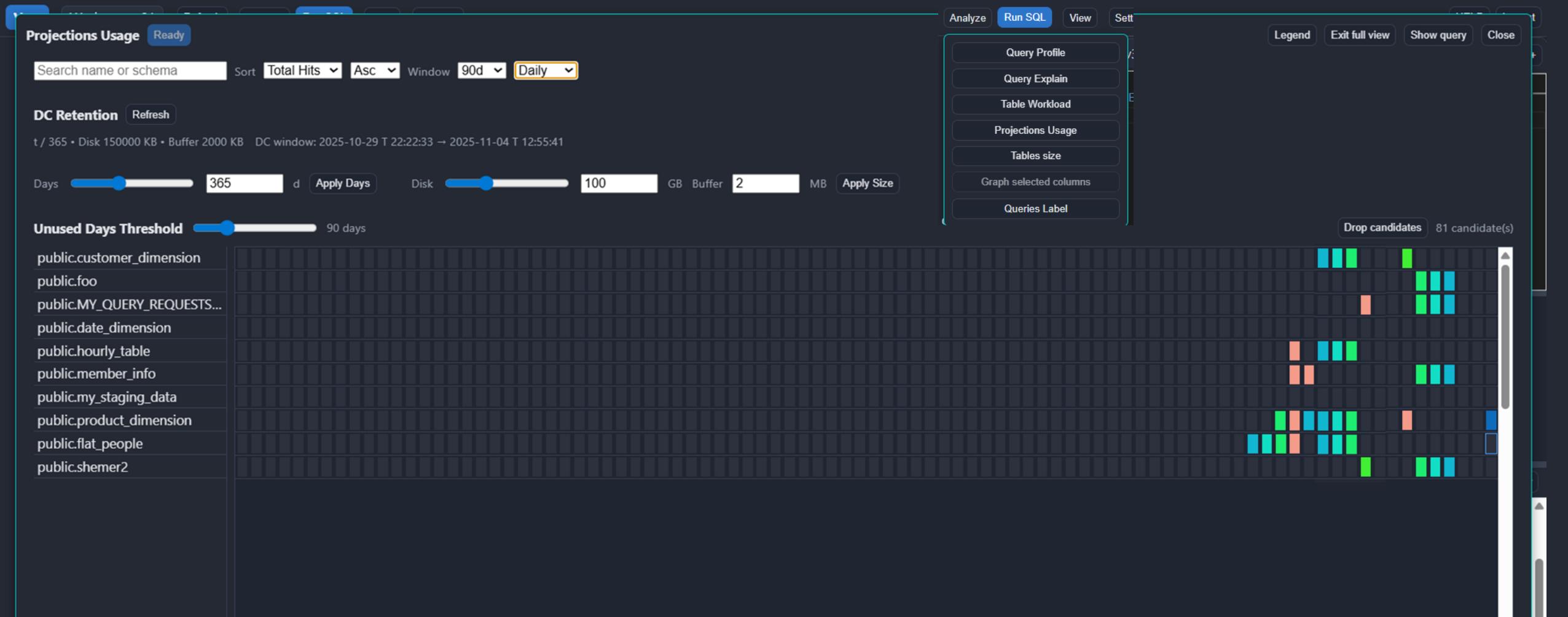
Expanded display is on.

-[RECORD 1]-----	
observation_count	1
first_observation_time	
last_observation_time	
tuning_parameter	online_sales.online_sales_fact
tuning_description	run database designer on table online_sales.online_sales_fact
tuning_command	
tuning_cost	HIGH

Console Zoom: 100% - + Reset Close my sessions Clear

To produce a table workload recommendations:
Select a table checkbox in the schema tree and click on **Table Workload** in the **Analyze** menu.
VERA will generate into the Editor window the statement to analyze how a specific table is being accessed by queries.
The resulting recommendation suggest to run Database designer, to create optimal database projections (like indexes in other databases) to enhance the performance and speed of future queries executed against that table.

441b-bb60-ca8a586663c7.sql



The **Projections Usage** menu option in the **Analyze** menu allows you to visualize and analyze historical table usage over a specified period. This historical view is made possible by the Data Collector (DC) retention information which tracks and saves projection and table access statistics.

In this example we can see settings like Days (365) and DC Window (2025-10-29 to 2025-11-04), indicating the desired period for which the usage data is being displayed, constrained by the underlying DC retention policies for the relevant monitoring components (e.g., `dc_projections_used`).

The colorful grid illustrates the daily usage pattern for various tables over the selected time window.

Close

Search schema table



The **Tables Size** menu option in the **Analyze** menu designed to visualize and compare the size of tables in the database. This feature offers a bar chart visualization that allows users to quickly compare the uncompressed size (raw data) against the compressed size for each table in the database.

By hovering over a specific table's bar, as shown for `online_sales.online_sales_fact`, detailed metrics like Uncompressed GB, Compressed GB, the compression ratio, and row count are revealed.

The metric's ability to show the compression ratio (Compressed / Uncompressed) is highly valuable for evaluating the effectiveness of a table's chosen column data types and encodings. High ratio suggests that the current choices are optimizing storage efficiency, while low ratio suggests tuning the relevant column(s) encodings and/or data type. This comparison is critical for monitoring storage utilization, evaluating the effectiveness of data compression strategies, and identifying the largest or most compressible tables.

Database EEVDB

Schemas (1008)

DEMO01

foo

KEDEM

online_sales

Tables (3)

call_center_dimension

online_page_dimension

online_sales_fact

Columns

- sale_date_key - int
- ship_date_key - int
- product_key - int
- product_version - int
- customer_key - int
- call_center_key - int
- online_page_key - int
- shipping_key - int
- warehouse_key - int
- promotion_key - int
- pos_transaction_number - int
- sales_quantity - int
- sales_dollar_amount - float
- ship_dollar_amount - float
- net_dollar_amount - float
- cost_dollar_amount - float
- gross_profit_dollar_amount - float
- transaction_type - varchar(16)

Views (0)

performance_test

bol

V1 V2 v3 V4 V5 V6

```
1 \x
2 SELECT ANALYZE_WORKLOAD('online_sales.online_sales_fact');
3
```

Expanded display is on.

	- [RECORD 1] -----
observation_count	1
first_observation_time	
last_observation_time	
tuning_parameter	online_sales.online_sales_fact
tuning_description	run database designer on table online_sales.online_s
tuning_command	
tuning_cost	HIGH

Console

Zoom: 120%

-

+

Reset

Close my sessions

Clear

```
[2025-11-04T10:02:02.524Z] Welcome to Vera. Install Vertica client for Windows first.
[2025-11-04T10:02:02.526Z] Expected vsqlexe (typical): C:\Program Files\Vertica Systems\VSQLEXE\vsqlexe.exe
[2025-11-04T10:02:02.526Z] Open Settings to configure paths and connection details.
[2025-11-04T10:02:02.639Z] Loaded schema cache from disk
[2025-11-04T10:10:27.980Z] Starting schema refresh...
[2025-11-04T10:10:27.980Z] Using vsqlexe host=10.30.30.36 db=EEVDB user=dbadmin pw=***
[2025-11-04T10:10:31.547Z] vsqlexe exit code: 0
[2025-11-04T10:10:31.547Z] vsqlexe stdout length: 173213
[2025-11-04T10:10:31.547Z] fetch-schema: received 4277 line(s)
[2025-11-04T10:10:31.547Z] Database name: EEVDB
[2025-11-04T10:10:31.558Z] Parsed: schemas=1008 tables=2118 views=12 stored_procs=14
sys_tables=243 columns=3000 sp_args=23
[2025-11-04T10:10:31.656Z] Saved schema cache: ok
```

When a user clicks on HELP

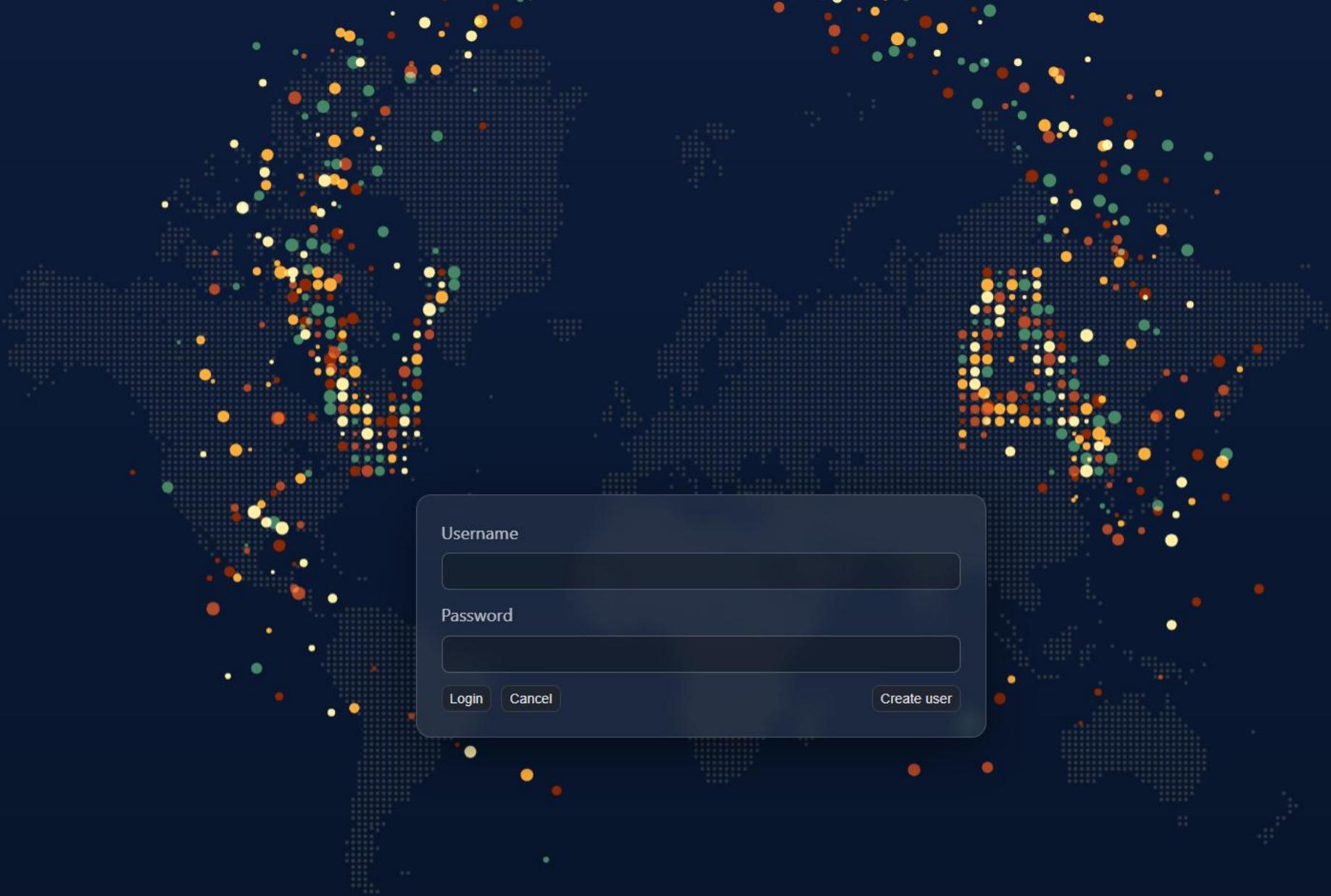
VERA opens the documentation doc in the user default browser as HTML document.

HELP Logout

Close

Ask about your data, e.g. "List top 10 customers by revenue for last month"

Send New chat
Ask a question or instruct the assistant...



The login screen features colorful, animated beads that react to mouse hover actions and scatter in response.