

#FABCONSQLCON2026

FABCON

Microsoft Fabric
COMMUNITY CONFERENCE

SQLCON

Microsoft SQL
COMMUNITY CONFERENCE

ATLANTA MARCH 16 - 20, 2026



Talk to Your Data: The Future of Data Interaction with AI

Me Myself and I

- DBA To MCE
- Junior SQL DBA for Next (UK)
- SQL DBA (Albelli)
- MCE (SBP)
- Azure Heroes Organizer NL
- MVP
- Redgate Community
- 2 kids, live in Laren NL



Content

- Introduction & Data Challenge
- Solution Overview
- Demo
- Use Cases & Best Practices
- Wrap up

THE 2023 MAD (MACHINE LEARNING, ARTIFICIAL INTELLIGENCE & DATA) LANDSCAPE

INFRASTRUCTURE

MPP DBs
Microsoft Azure, IBM Storage, wasabi, ANASAS, DHEsITY, CLUMIO, MINIO, ICloudflare

DATA LAKES / LAKEHOUSES
Microsoft Azure, Google Cloud, AWS Amazon EMR, IBM, Exasol, Greenplum Database, Onehouse

DATA WAREHOUSES
Microsoft Azure, Google Cloud, AWS Amazon Redshift, Oracle, VMware, IBM, Tabular, StarRocks, Ocident, Hydra

STREAMING / IN-MEMORY
Microsoft Azure, Google Cloud, AWS Amazon Kinesis, Databricks, Oracle, SAP, HANA Cloud, Strim, GIGASPACEs, Grafana, Databricks, HAZELCAST, meromax, VOLTRON DATA, DELTASTREAM, ESTUARY, Redpanda, tinybird, StreamNative, MotherDuck, ververica, conductor, aiven, Quix, RisingWave Labs, bytewax, upsolver, arcion, ably

SQL DATABASES
Microsoft Azure, Google Cloud, AWS Amazon RDS, Oracle, XCL, MongoDB, MarkLogic, DATASTAX, SCYLLA, VMware, VOLT, DASSULT, Speedb

NewSQL DATABASES
Microsoft Azure, Google Cloud, AWS Amazon Aurora, CockroachDB, MariaDB, PlanetScale, YugabyteDB, influxdata, Timescale, PingCAP

REAL TIME DATABASES
SingleStore, Redis, ImPLY, ClickHouse, Materialize, star-tree, Ability, Macrometa, ReadyDB, KX

GRAPH DBs
neo4j, IBM Graph, Dgraph, ORACLE, MEM GRAPH, STARDOG, Objectify, TigerGraph, TerminusDB, ArangoDB

GPU DATABASES
kinetica, SUREDB, HASURA, XATA, APOLLO, Prisma, fauna, CHESLSTREE, convex, appwrite

DATABASE ABSTRACTION
supabase, SUREDB, HASURA, XATA, APOLLO, Prisma, fauna, CHESLSTREE, convex, appwrite

VECTOR DATABASES
Pinecone, zilliz, drant, weaviate, Twelve Labs

DATA QUALITY & OBSERVABILITY
unravel, MONTE CARLO, MANTA, Colibra, databold, Databrand, acceldata, metaplane, sifflet, timewise, Snyk, talend, SODA, Bigeye, great expectations, Anomalo, precisely, lightup, validio

FULLY MANAGED
MOZART DATA, 42, FruitionData, Keboola, Nexla, DataSet, Sciencelogic, VEEAM, Grafana Labs, PagerDuty, data virtuality, moogsoft, ontophore, PRIVATEA, PRIVATAR, Opaque, ENVEIL, TripleBnd

MGMT / MONITORING
aws, new relic, AppDynamics, splunk, solarwinds, dynatrace, rubrik, Cribl, VMware, WAVEFRONT, Moogsoft, ontophore, DataSet, Sciencelogic, VEEAM, Grafana Labs, PagerDuty, data virtuality, moogsoft, ontophore, PRIVATEA, PRIVATAR, Opaque, ENVEIL, TripleBnd

PRIVACY & SECURITY
VERY GOOD SECURITY, PRIVABERA, Cyral, Cape Privacy, Country, Transcend, skyflow, Duality, Privacy Dynamics, Catch, OneTrust, PRIVATEA, PRIVATAR, Opaque, ENVEIL, TripleBnd

COMPUTE
aws, Microsoft Azure, D2, Colled, anyscale, Modal, AWS Lambda, PENGUIN, NVIDIA, Microsoft Packard Enterprise, Microsoft Azure, nuclio, Google Cloud, EQUINIX

ANALYTICS

BI PLATFORMS
Looker, ThoughtSpot, IBM Cognos Analytics, SAP Analytics Cloud, TIBCO Spotfire, ORACLE, Qlik, GoodData, MicroStrategy, GROW, kyvos, Metabase, POPSOL, Lightdash

VISUALIZATION
Tableau, Microsoft Power BI, SAP Lumira, Google, Astrato, plotly, TIBCO, Observable, GRID, Streamlit, Rili, cumul.io

DATA ANALYST PLATFORMS
Mode, Microsoft, Alteryx, pyramid, AIR CORP, ASCENDIO, GUAVUS, Airtable, Datameer, PREQL, onodot, seek, TRACE, cube, Pecan, Equals, glean, ING, Lido, Workstream.io, canvas, Deephaven, Weld, tellus, Narrator

CUSTOMER DATA PLATFORMS
TEALIUM, ActionIQ, segment, Simon, Impartice, Amperity, lytics, Pythel Software, Upsider, blueshift, optimove, Adobe, rudderstack, blueconic, SYNCARI

PRODUCT ANALYTICS
Amplitude, mixpanel, pendo, Contentsquare, Heap, data.ai, fullstory, GLASSBOX, whatfix

LOG ANALYTICS
splunk, Google Cloud, sumologic, solarwinds, kibana, logz.io, MEZMO, Coralogix, LogRhythm, OBSERVE, DATADOG, exabeam, AppDynamics, LogicMonitor, sematext

CRYPTO / WEB 3 ANALYTICS
CHAINALYSIS, ELLIPTIC, TRM, Dune, vV merlin, nansen, nxyz, Allium, Luabase

QUERY ENGINE
dremio, Starburst, ahana

ENTERPRISE SEARCH
elastic, aws, ORACLE, aws, Microsoft Azure, algolia, coveo, sinequa, Lucidworks, onna, AlphaSense, glean, vectara, quickwit, CHAOSSEARCH, seva

MACHINE LEARNING & ARTIFICIAL INTELLIGENCE

DATA SCIENCE NOTEBOOKS
jupyter, IBM, Amazon SageMaker, Google Cloud, AWS Amazon SageMaker, Microsoft Azure, binder, Deepnote, Noteable, count, COCALC, Curvenote, Nextjournal

DATA SCIENCE PLATFORMS
IBM Watson Studio, ORACLE, RAPIDMINER, Palantir, SAS, TIBCO, ANACONDA, ALTAIR, KNIME, MathWorks

ENTERPRISE ML PLATFORMS
databricks, Amazon SageMaker, dataiku, Microsoft Azure, Google Cloud, H2O.ai, DataRobot, DOMINGO, ABACUS.AI, Wallaroo, Snorkel, Continual, dotData, Modular, AIBLE, obviously.ai, causaLens, graft

DATA GENERATION & LABELING
scale, HIVE, upwork, amazon, appen, Unity, sama, cloudfactory, Super AI, Kili, V7, datagen, ALEGION, MOSTLY.AI, TOINC, gretel, MAGN

MLOPS
Weights & Biases, Tecton, Google Cloud, AWS Amazon SageMaker, Arctur, EVIDENTLY AI, HOPSWORKS, comet, deci, baseten, Verta, truera, ROBUST INTELLIGENCE, fiddler, iterative, RASGO, VALOHAI, Galileo, dotatron, arize, aporia, FEAST, cortex, madzy, SELDOV, WHYLABS, Diveplane, neptune, Features & Labels, cnvrg.io, BENTON, OctoML, Gliskard, Predibase, mindsdb, ZenML, ai squared, premo, nannyML, DUST, finegrain

COMPUTER VISION
Microsoft Azure, Google Cloud, AWS Amazon Rekognition, AWS Rekognition, Matroid, chooch, clarifai, Core ML, Clearview AI, PROPHESIE

SPEECH
Siri, alexa, AWS Amazon Transcribe, AWS Transcribe, Microsoft Azure, Microsoft Azure, Nuance, SoundFound Inc., cogito, DC, AssemblyAI, AVOMA, Verbit, Eleven Labs

NLP
Google Cloud, AWS Amazon Comprehend, AWS Comprehend, Hugging Face, codhere, PRIMER, moovva, SMARTLING, Amenity, Unbabel, Wavotalk, EMOTIBOT, cortical.io, LILT, deepset

HORIZONTAL AI / AGI
Microsoft Research, Google Research, DeepMind, OpenAI, ANTHROPIC, IBM Watson, Adept, stability.ai, Midjourney, Numenta, ELEVEN, Inflection, CSM, intrinsic, CONJECTURE, AI2, Allen Institute for AI, Mila, AS FOUNDATION, MIRI, VECTOR INSTITUTE, Keen Technologies, ML The Institute for Ethical AI & Machine Learning, AI21 labs, YITU, CarperAI, Replicate, hume, X

AI HARDWARE
Google Cloud, NVIDIA, intel AI, SambaNova, AWS, Cerebras, arm, SYNTIAN, GRAPHCORE, intel Fusion, Cambion, B3, blazie, CREDO, HALLO, mobileye, Horizon Robotics, CERNAMI, SPEDATA, tenstorrent, groq

GPU CLOUD
Paperspace, Lambda, CoreWeave, Exafunction, run:ai, mosaic, GRID.ai

EDGE AI
Qeexo, HALLO, Dreeplite, OMNI, EDGE IMPULSE

CLOSED SOURCE MODELS
OpenAI, Google, OpenAI GPT3, Google Research, DeepMind, OpenAI GPT4, Midjourney, DeepMind, Google Research, Meta AI, Google Research, Bal Research, AI21 labs, OpenAI Codex, NVIDIA, Google Research, Meta AI, DeepMind

APPLICATIONS - ENTERPRISE

SALES
GONG, Clari, aviso, people.ai, Clearbit, tact.ai, HeadUp, regie.ai, Laveo, Smartvertical, Outreach, Salesloft, involve.ai

MARKETING
Bluecore, sense, attentive, Oppler, ActiveCampaign, bloomreach, ZETA, Mollify, DEMANDBASE, PERSADO, INVOCAL, braze, NextRoll, copy.ai, Lily, copysmith, Writesonic, anyword, phrassee, WRITER, AdCreative

CUSTOMER EXPERIENCE
ASAPP, DRIFT, uniphore, netomi, IBM, CallMiner, frame.ai, kore.ai, replicant, afiniti, observe.ai, sprinklr, CRESTA, Moveworks, yellow.ai, moengage, Forethought, Typewise, PolyAI

HUMAN CAPITAL
HireVue, gloat, textio, StepStone, Harver, Leitch, Salesloft, involve.ai, VISIER, Turing

AUTOMATION & OPERATIONS
UiPath, COLIAS, ANTWORKS, airState, workato, ZAPPI, ALKYPI, CROCLUS, ROSSUM, bard, LEVITY

LEGAL
Icertis, DISCO, ContractPodAI, Everlaw, Ironclad, Relativity, LINCOLN, casetext, DonotPay, reveal, Spellbook, Luminance

PARTNERSHIPS
CROSSBEAM, PARTNERTAP, PartnerStack, Hubu, REVEAL

REGTECH & COMPLIANCE
Big, Hummingbird, D7ATA, FAIRTR, COMPLIANCE

FINANCE
napian, zuora, DIGITS, oppzen, pilot, botkeeper, datarails

APPLICATIONS - HORIZONTAL

CODE & DOCUMENTATION
zeplit, GitHub Copilot, Tabbline, DeepMind, durable, anima, AI21, Modeme, warp, mutable.ai, MACHINET, BLACKBOX, Magic

TEXT
Jasper, cogram, Jasper, wordtune, COMPOSE AI, Moonbeam, Subtxt, NovelAI, LAIKA, SUMMARI, HyperWrite, fable, ONEAI, crafty.ai

AUDIO & VOICE
krisp, Prisma, Lexica, Facet, alpacalabs, mage.space, WELLSAB, supertone, Podcast.ai, MURFAI

IMAGE
Midjourney, stability.ai, Prisma, crayon, IMAGEN, Facet, alpacalabs, mage.space, WELLSAB, supertone, Podcast.ai, MURFAI

VIDEO EDITING
runway, descript, EmbodyMe, Synthesia, refico, DIDI, Rapprase.ai, Fiki, tavus, Merie, typecast, PICTURE

ANIMATION & 3D
avataar, CSM, inworld, DATAGRID, LUMA AI, mirage, FREEDOM

APPLICATIONS - INDUSTRY

FINANCE & INSURANCE
KENSHC, Upstart, Amonade, GUIDEWIRE, CAPE SHIFT, PLANK, Tractable, EvolutionQ, cowbell, FRIS, ZELROS, Zesty, envelop, AlphaSense, ZESTO, Taktile, enova

HEALTHCARE
flatiron, GRAIL, Clarify, babylon, Bioluminis, PathAI, TEMPUS, clearly, aidoc, AIcure, innovaccer, pager, springhealth, ARTERYS, ezra, Caption Health, IMAGEN, bria, DeepScribe, abridge, VARQ, Rad AI, regard, Nabla, FATHOM, AKASA, Anomaly, sonic, dubm

LIFE SCIENCES
Indica, Benching, color, verily, Benevolent, DNAnexus, Schrodinger, frannome, Arsenalis, OWON, nimbus, LeonTas, ScienceIQ, IIIPOPLI, bria, DeepScribe, abridge, VARQ, Rad AI, regard, Nabla, FATHOM, AKASA, Anomaly, sonic, dubm

TRANSPORTATION
UBER, TESLA, cruise, nuoro, ACTIV, Applied Intuition, HEPTON, G7, NVIDIA, nexar, luminar, MAGNA, gree, Motionlab, health, OIDI, pony, vvo

AGRICULTURE
John Deere, BOWERY, FBN, IRON JOX, BLUE RIVER, regrow, TARANIS, FarmWise, BENSON HILL, semios

INDUSTRIAL & LOGISTICS
Verde, SIEMENS, Path Robotics, LIFTABLE, Path Robotics, SICK, BUILT, Beyond Limits, Stryd, cris, OSARO, deponomatic, Outrider, AMP, semios

OPEN SOURCE INFRASTRUCTURE

FORMAT
Flink, ICEBERG, Parquet, DORIS, HAWQ

QUERY / DATA FLOW
spark, presto, trino, DripQL, magda, drill, beam, HAWQ

DATA ACCESS
Amundsen, influxdata, magda, rick

DATABASES
MongoDB, redis, CockroachDB, influxdata, rick, ksqiDB, EDGE DB, HBASE

OLAP
ClickHouse, dudu, pinot, SQA, HAYSTACK, HYDRA

ORCHESTRATION
Apache Airflow, PREFECT, DAGSTER, FLYTE, METAFLOW, LIGHT, ORGO

INFRASTRUCTURE
Kubernetes, Mesos, Apache Hadoop, ELK, ELASTICSEARCH, ELASTICSEARCH, ELASTICSEARCH

DATA OPS
MARQUEZ, great expectations, OpenLineage, lakeFS, Project Nessie

STREAMING & MESSAGING
kafka, beam, PULSAR, Flink, STORM, RabbitMQ, Apache RocketMQ, SAMZA, nifi, debezium, RESTUARY, Gaze, memphis, bytemux

STAT TOOLS & LANGUAGES
python, Scala, Numpy, pandas, SoPy, Studio, julia, GNU Octave

MLOPS & AI INFRA
miflow, Kubeflow, mLeap, SELDOV, smart, deepchecks, BENTON, MediaPipe, LangChain

AI FRAMEWORKS & LIBRARIES
TensorFlow, PyTorch, Keras, fast.ai, OpenCV, learn, XGBoost, PyTorch Lightning, H2O.ai, SINGA

AI MODELS & ARCHITECTURES
NVIDIA, Google Research, OpenAI GPT, Google Research, stability.ai, DeepMind, Meta AI, ROBERTa, DistilBERT, XLNet, BERT, Google AI, Meta AI, Meta AI

SEARCH
Solr, Lucene, Mellsearch, Sonic, Tantivy

LOGGING & MONITORING
elastic, kibana, Sentry, logstash, Prometheus, fluentd, fluent, Grafana, VECTOR, prometheus

VISUALIZATION
Superset, matplotlib, reDash, TensorBoard, seaborn, bokeh

DATA SOURCES & APIS

FINANCIAL & MARKET DATA
Bloomberg, Thomson Reuters, Dow Jones, Fidelity, Plaid, CBNSIGHTS, SIGNAL AI, THE WORLD BANK, Stockwits, xignite, Intrinio, databento, earnest, enigma, MX, tink, SmartNews, TruLayer, Kaiko, COINMETRICS, dv01, FACTSET, EDGAR, CANOE

AIR / SPACE / SEA
Orbital Insight, Spire, PRELIGE, WINDWARD, MarineTraffic, RS Metrics, Synspcive, eagleview, ICEYE

PEOPLE / ENTITIES
zoominfo, ACXION, experian, Epsilon, klue, Brandwatch, Quantcast, cognism

LOCATION INTELLIGENCE
FOURSQUARE, mapbox, SAFEGRAPH, sense360, unacast, PlaceIQ, esri, CARTO, Radar, Placer.ai, cuebiq, OpenStreetMap

ESG
SUSTAINALYTICS, MSCI, TRUVALUE LABS, RepRisk, esgbook, ISS ESG, CLARITY AI, Arcadia, novisto

DATA & AI CONSULTING

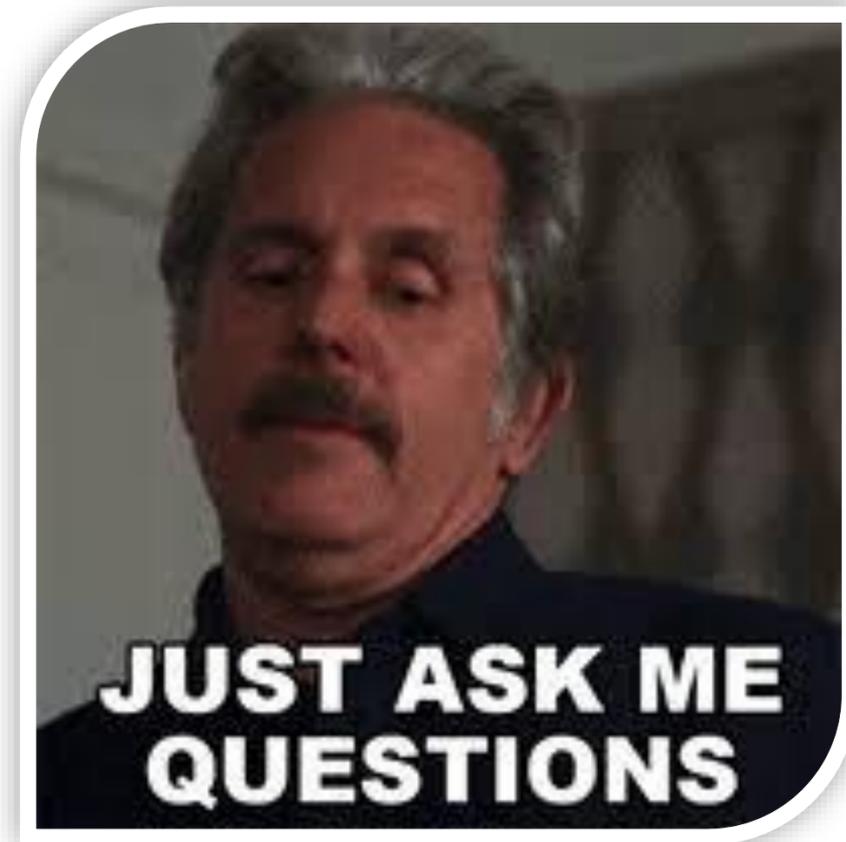
QuantumBlack, ECGX, Deloitte AI Institute, IBM AI Consulting, Cambridge Consultants, LeewayHertz, slalom, BROOKLYN DATA CO., TERNARY, itrex, DEEPER INSIGHTS, data root labs, InData Labs, THIRDEYE, Azati, addepto, UPRIGHT ANALYTICS, Bytecode IO, MERU, Data Captains, IN THE DATA, 4MILE, Revolve BI, Analytics8, phData, kubrick, FluonFactors, DEEPSKY DATA, EY, ZS

The Data Challenge Today



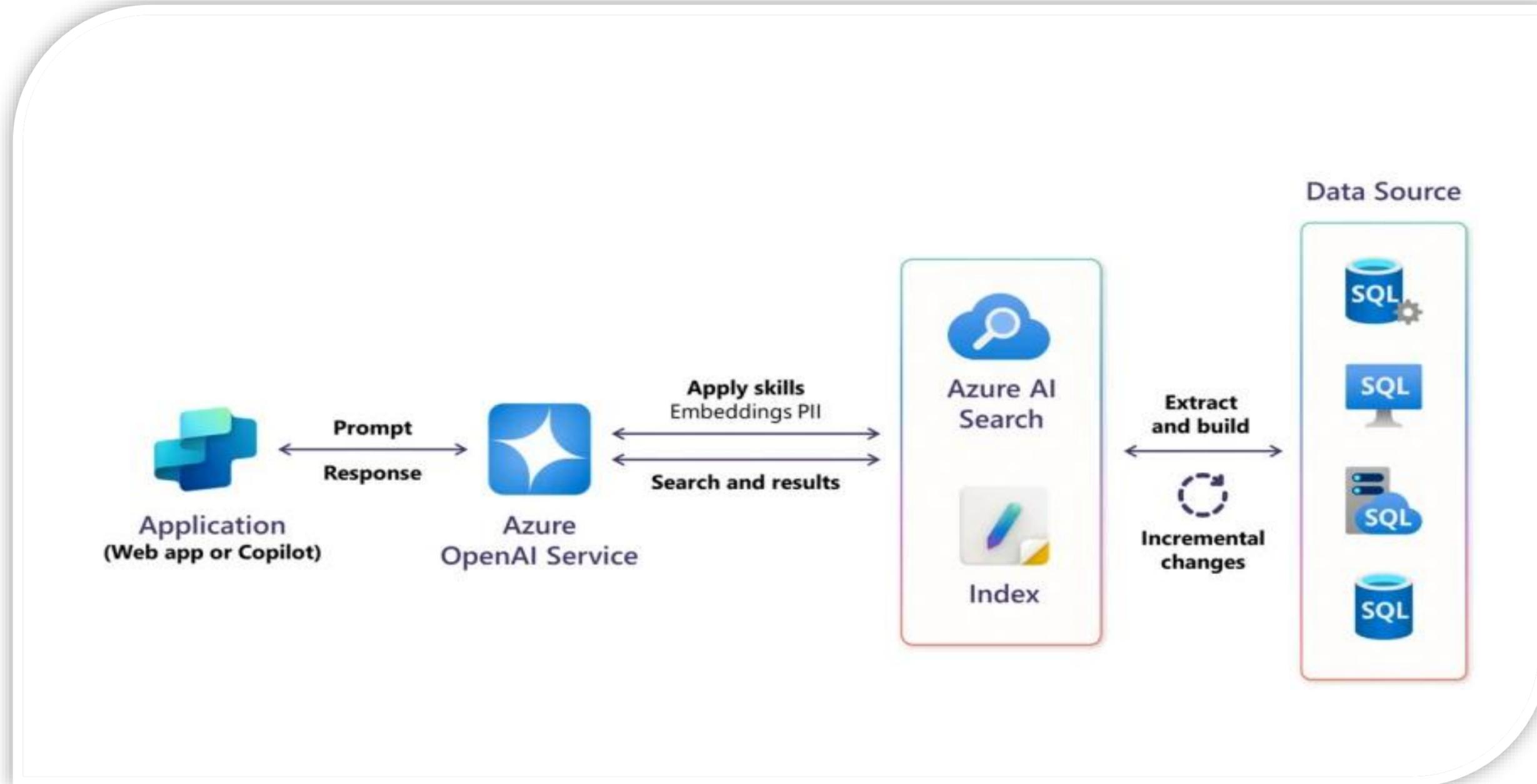
- The Traditional way to interact with Databases? T-SQL, Python, Excel (of course) plus many more....
- Barriers for business users & non-technical professionals
Waiting for Data Team potentially
Reports, Queries need changing..
- The need for natural language interactions
Unblock the above
Business can talk to their Data

What If You Could Just Ask?

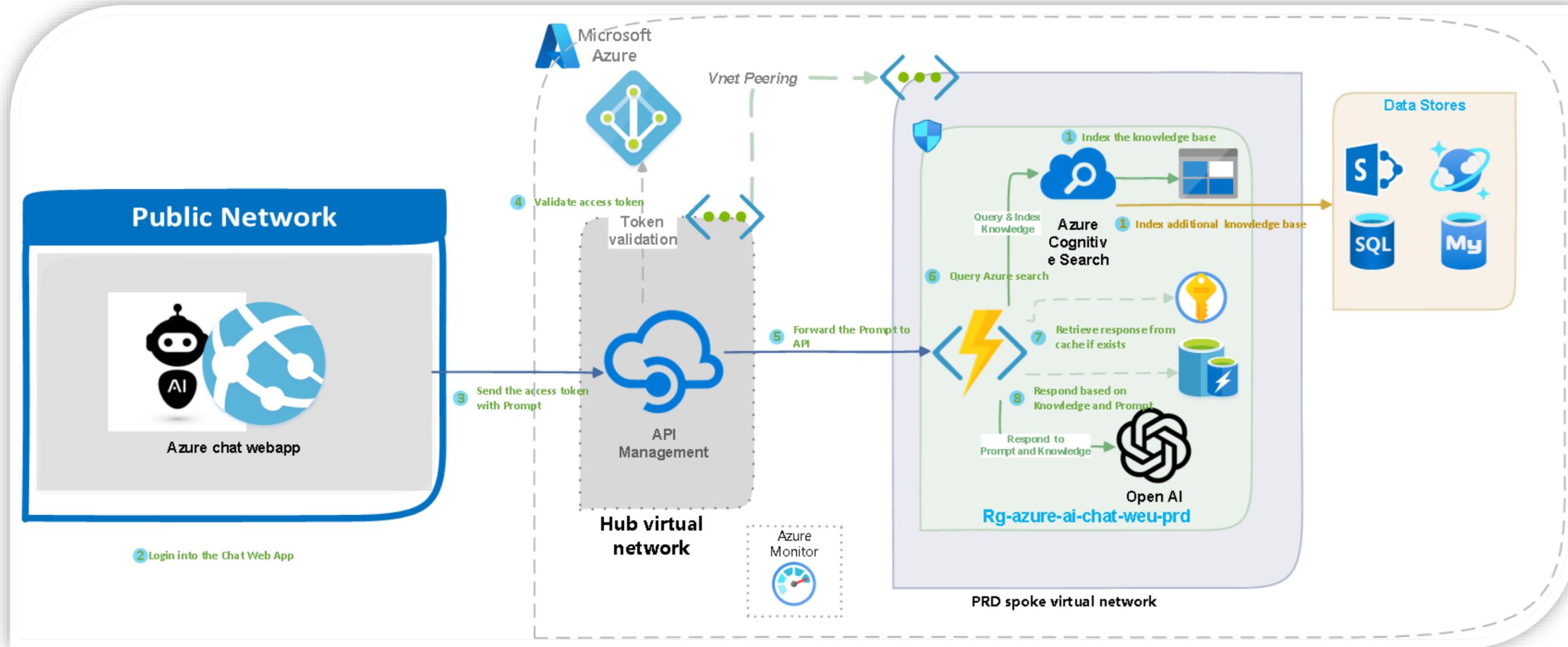


- Concept of Conversational Data Access
How AI is transforming data interaction
- How AI + SQL enables chat-based data queries
- Connecting various datasets without writing SQL

What is Azure AI Search & How It Works with SQL?



Reference Architecture



Stop Its AI Search Demo Time



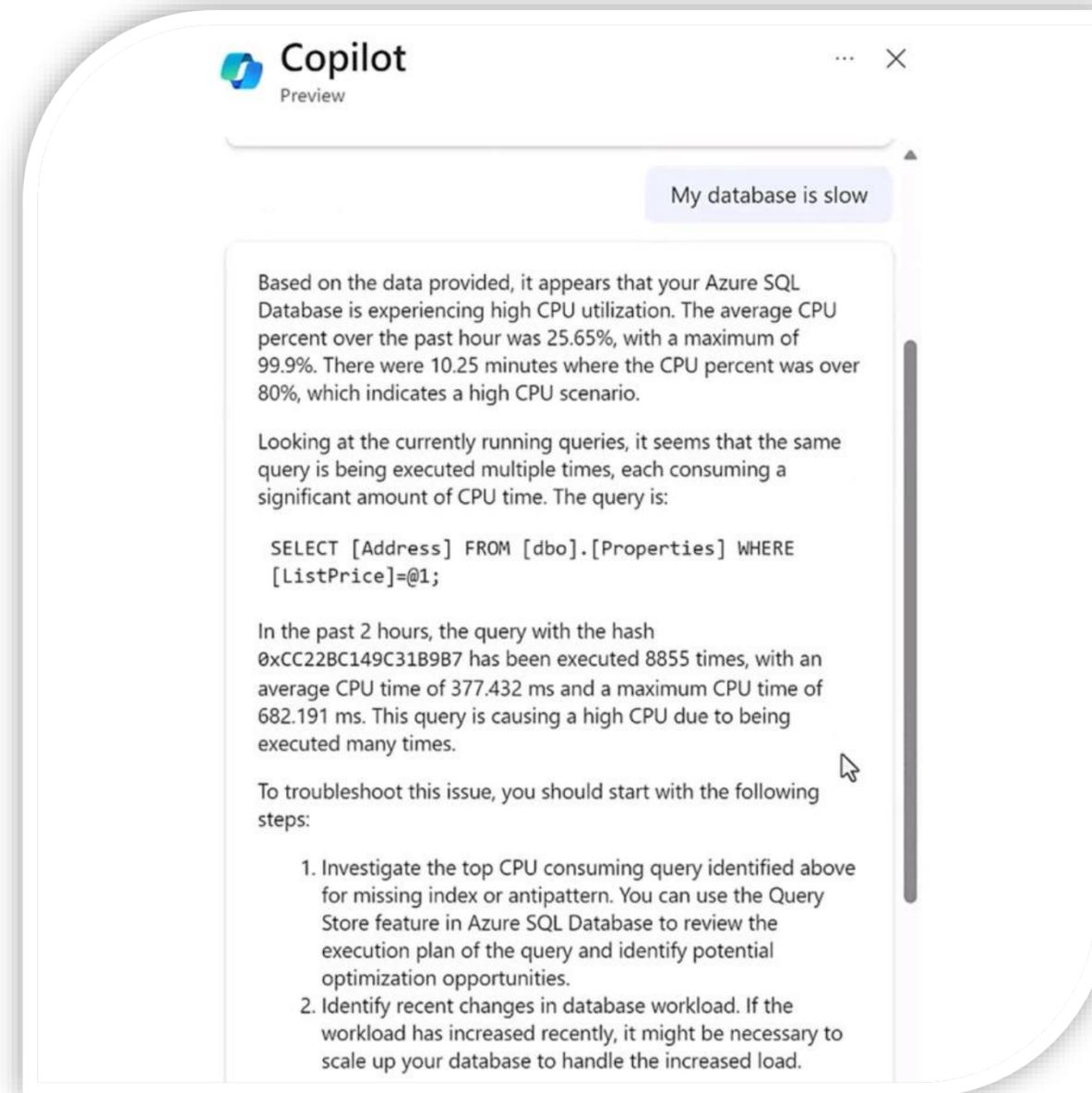
Stop Its Demo Time

- What was covered?
- Demo against a dataset
- No Code setup
- The setup between the resources
- Azure AI search setup – Show settings, indexes
- Open AI Setup – change response style and setup data source
- Azure SQL DB setup

Example

The screenshot shows a chat window with two main sections: 'Chat history' and 'Citations'. In the 'Chat history' section, a message states that data needs to be gathered from a different source. Below it, a blue button says 'you can use the column view count'. A search result snippet is shown with a red box around the text 'count of 3,771 ¹.'. At the bottom of the chat history, there is a text input field with the placeholder 'Type user query here. (Shift + Enter for new line)'. The 'Citations' section shows a list of search results. The first citation is a question: 'What is the best way to track page views? For instance: SO has how many views a Question has, yet hitting refresh doesn't up the view count.' The second citation is an answer: 'I've read that using cookies is a pretty good way to do so, but I'm at a loss on how this doesn't get out of hand.' The third citation is another question: 'I've searched all over and can't find a good answer for this.' Below this is an 'EDIT:' section with the text: 'I also see that another option (once again I could be horribly wrong) is to use Google Analytics API to get page views. Is this even an viable option? How does Stackoverflow, youtube, and others track their views?' At the bottom of the citations, there is a timestamp and a snippet: '4 2010-10-19T04:07:00.000Z 4 6 How to track page views 3771'. The chat window has a token limit indicator at the bottom: '816/128000 tokens to be sent'. There are also icons for chat history, settings, and a close button.

My Database is Slow?



Copilot
Preview

My database is slow

Based on the data provided, it appears that your Azure SQL Database is experiencing high CPU utilization. The average CPU percent over the past hour was 25.65%, with a maximum of 99.9%. There were 10.25 minutes where the CPU percent was over 80%, which indicates a high CPU scenario.

Looking at the currently running queries, it seems that the same query is being executed multiple times, each consuming a significant amount of CPU time. The query is:

```
SELECT [Address] FROM [dbo].[Properties] WHERE [ListPrice]=@1;
```

In the past 2 hours, the query with the hash 0xCC22BC149C31B9B7 has been executed 8855 times, with an average CPU time of 377.432 ms and a maximum CPU time of 682.191 ms. This query is causing a high CPU due to being executed many times.

To troubleshoot this issue, you should start with the following steps:

1. Investigate the top CPU consuming query identified above for missing index or antipattern. You can use the Query Store feature in Azure SQL Database to review the execution plan of the query and identify potential optimization opportunities.
2. Identify recent changes in database workload. If the workload has increased recently, it might be necessary to scale up your database to handle the increased load.

Use Cases

- **Intelligent Customer Support System:**

1.Setup: Azure SQL can store customer data, interaction history, and product information, while Azure OpenAI can power an AI-driven chatbot.

2.Functionality: The chatbot uses stored customer data to provide personalized support, answer queries, and process requests. Natural language processing ensures conversational responses, and SQL queries fetch real-time data (e.g., order status, transaction details).

Use Cases

- **AI-Powered Revenue Forecasting and Insights**

- **Setup:**

Azure SQL stores historical sales, customer, and financial data, while Azure OpenAI analyzes the data to generate predictive insights.

- **Functionality:**

AI identifies trends and patterns to forecast next-quarter revenue. Business users can ask natural language questions and receive data-driven insights to support strategic planning and decision-making.

Use Cases

- **AI-Powered Database Performance Insights**

- **Setup:**

Azure SQL stores performance metrics such as query execution times, resource usage, and workload patterns. Azure OpenAI analyzes this operational data to detect inefficiencies.

- **Functionality:**

AI identifies slow queries, performance bottlenecks, and unusual workload patterns. It provides recommendations to optimize queries, improve indexing, and enhance overall database performance

Data Cleansing & Quality Enhancement

Setup Azure OpenAI & Azure SQL Prerequisites

- Azure OpenAI Service (Access to GPT models)
- Azure SQL Database (To store cleaned data)
- Azure Functions (To automate the process)

Data Cleansing & Quality Enhancement

Common Data Issues

- Typos & Misspellings (e.g., “Jhon” → “John”)
- Inconsistent Formatting (e.g., “CA” vs. “California”)
- Duplicate Entries
- Missing Data (Fill with contextual information)

Define a Function to Clean Data

```
def clean_data(input_text):  
    prompt = f"Clean and correct the following data: {input_text}. Ensure proper spelling,  
formatting, standardization. Make no Mistakes please please please"  
    response = openai.ChatCompletion.create(  
        engine="gpt-4",  
        messages=[{"role": "system", "content": "You are a data cleaning assistant."},  
                  {"role": "user", "content": prompt}],  
        max_tokens=100  
    )  
    return response["choices"][0]["message"]["content"]
```

Data Cleansing & Quality Enhancement

```
raw_data = "jhon do, 123 main str, ca"  
cleaned_data = clean_data(raw_data)  
print(cleaned_data) # Output: "John Doe, 123 Main Street,  
California"
```

```
cursor.execute("INSERT INTO Customers (Name, Address) VALUES  
(?, ?)", cleaned_data.split(", ")[0], cleaned_data.split(", ")[1])  
conn.commit()
```

Data Cleansing & Quality Enhancement

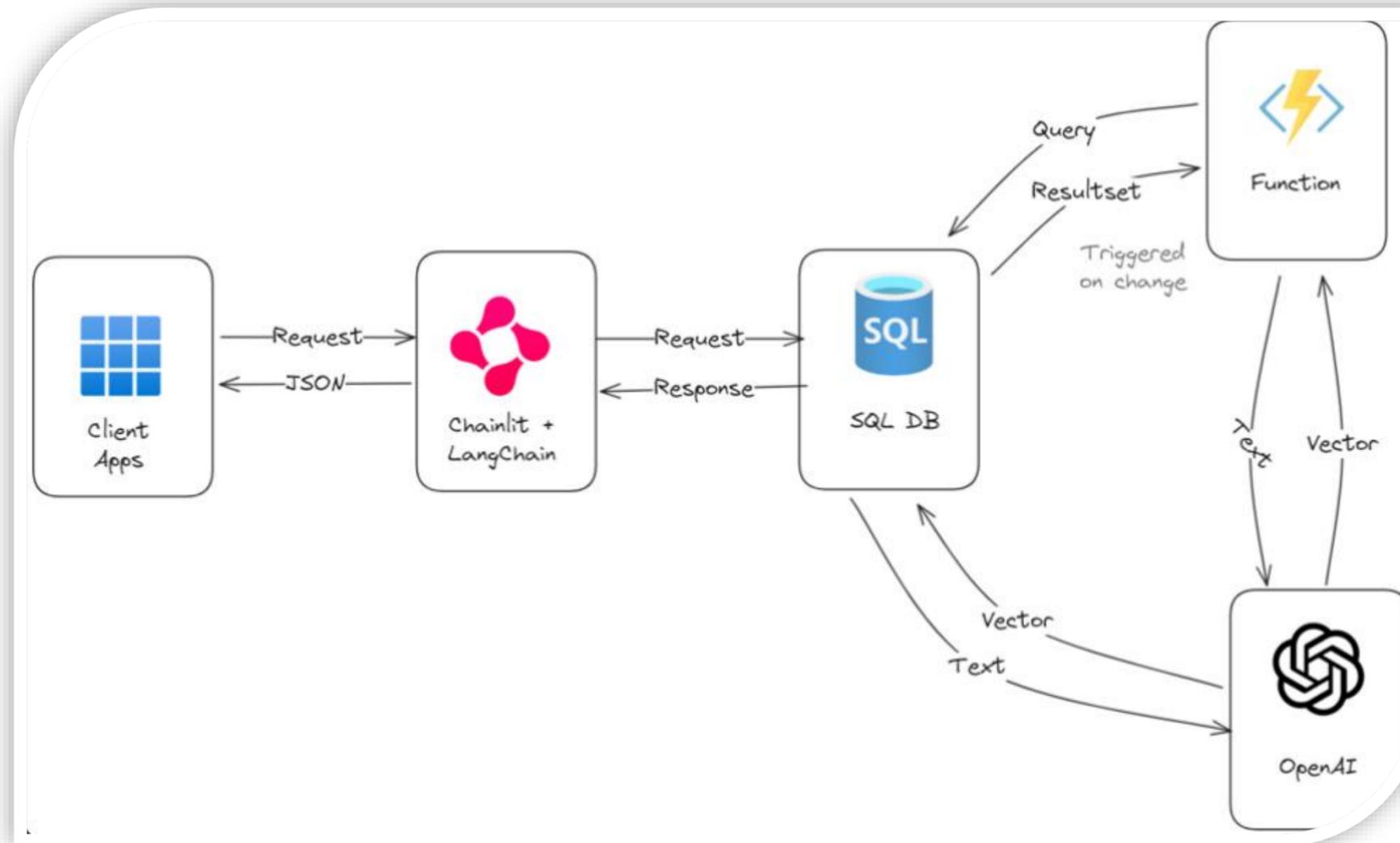
Would I Do this?

Spelling mistakes is a hard one, other quality gates could be handled by the application

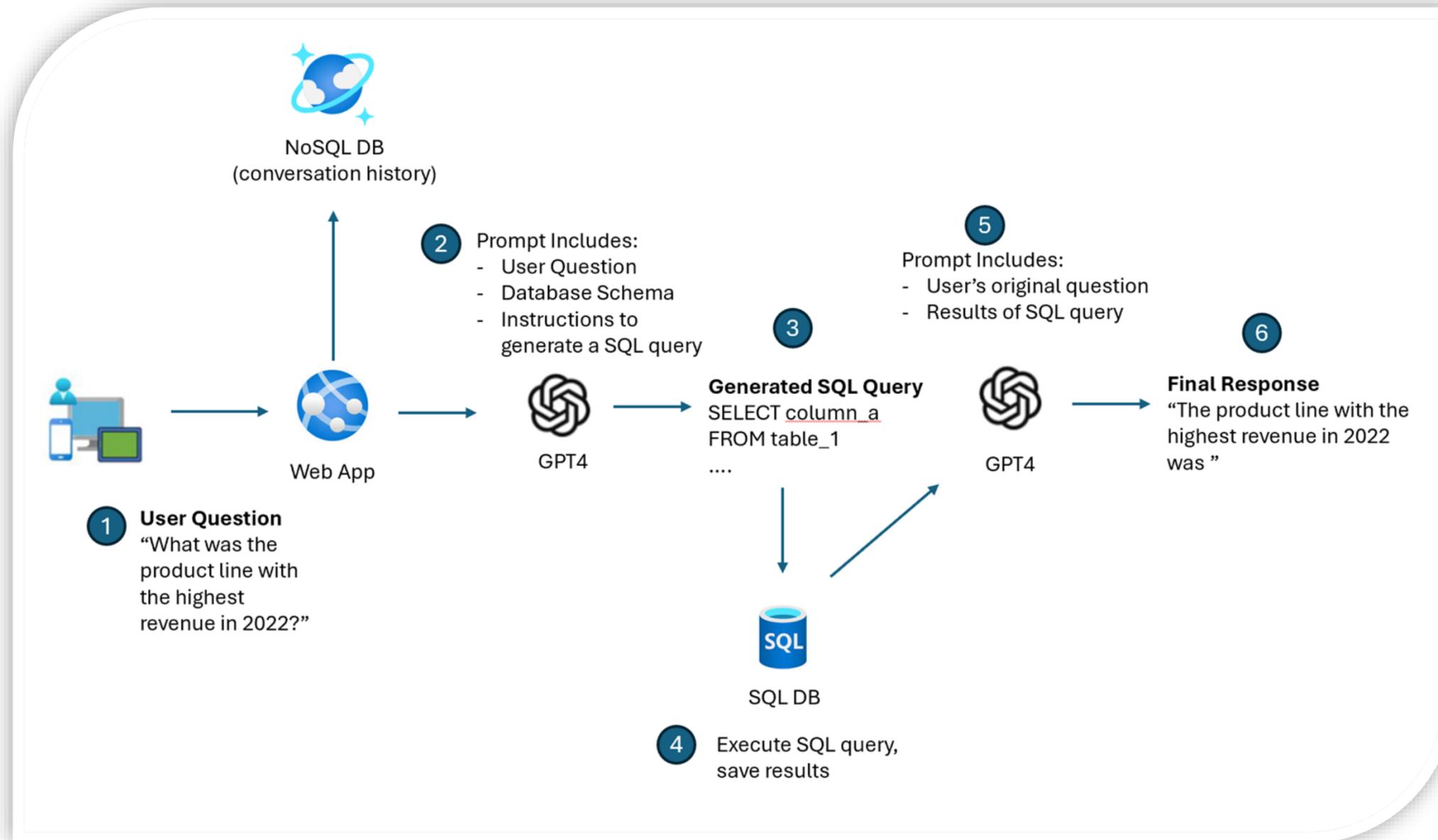
This is not batch, Row by row.

Its pretty cool though!

More is to Come...



Walk Through



Stop Its RAG Demo Time



Do you trust it?



Copilot

Running `sp_execute_remote` against an Azure SQL read-only replica is not supported. This stored procedure is designed for executing commands on remote databases, but read-only replicas are specifically configured to handle read-only workloads. Therefore, attempting to use `sp_execute_remote` on a read-only replica will not work as intended.

If you need to execute queries on a read-only replica, make sure your connection string includes `ApplicationIntent=ReadOnly` to direct the workload appropriately. If you have any specific scenarios or further questions, feel free to ask!



2 of 30 responses

Fabric?

The screenshot displays the Microsoft Fabric AI interface. At the top, there's a navigation bar with 'Home', 'Current', and 'Share' options. Below this is a toolbar with 'AI instructions', 'Example queries', 'Clear chat', 'Publish', and 'Revert to published version'. The left sidebar shows a tree view under 'AdventureWorksLH' with various data sources like 'dimcust...', 'dimdate', 'dimgeo...', etc. The main area is titled 'AdventureSales-AISkill-Scenario' and contains three sample questions: 'What are the historical trends across all my data?', 'Analyze recent data for any outliers', and 'Show me the details for a specific subcategory of data'. Below these is a text input field with a placeholder 'Ask a question to test the AI skill's response' and a 'Sample questions' button. At the bottom left, it says 'Created with AI. Mistakes are possible. Review terms'. On the right, an 'AI instructions' panel provides context: 'Help the AI skill understand your data by writing a detailed system prompt.' and 'The 'AdventureWorksLH' data source contains comprehensive information across three tables: 'dimcustomer' for detailed customer demographics and contact information, 'dimdate' for date-related data like calendar and fiscal information, and 'dimgeography' for geographical details including city names and country region codes. Use this data source for queries and analyses involving customer details, time-based events, and geographical locations.' A character count '448/15000 characters used' is visible at the bottom of this panel.



My Opinion

Utilize the tools but do not rely on the tool

Meaning,

Analysis should be done by professionals, and AI can read this analysis and provide it to the user.

For example, Financial data.

Tools Advancement / Agents

- VS code – github copilot
- SSMS Copilot + github copilot
- Copilot
- Data Agent
- MCP
- SQL Server 2025

MCP - MSSQL

<https://github.com/Aaronontheweb/mssql-mcp>

- **Abstract**

- Why does this exist? Because the other MCP solutions in market for this are generally janky pieces of s*** that don't work - certainly not on Windows.

Stop Its MCP / SQL 2025 Demo Time



Wrap up

- Data Challenges
- What if you could just ask?
- Reference Architecture
- Demo and Examples
- Use cases
- Potential Data Cleansing mechanism
- AI Skills in Fabric / Data Agents

Thank you!



Danny Kruge

Data Platform MVP 🦵 Mission Critical
Engineer at Schuberg Philis 🦹 Azure Hero...



Sound off.
The mic is all yours.
Influence the product roadmap.

Join the Fabric User Panel



Share your feedback directly with our Fabric product group and researchers.

<https://aka.ms/JoinFabricUserPanel>

Join the SQL User Panel



Influence our SQL roadmap and ensure it meets your real-life needs

<https://aka.ms/JoinSQLUserPanel>

How was the session?



Complete Session Surveys in
Whova for your chance to WIN
PRIZES!

