

IBM **SQL Data Insights** & IBM SQL Data Insights **Pro**

Bringing AI to where enterprise Z data lives



Speakers:

Akiko Hoshikawa,
Distinguished Engineer - Db2 for z/OS Development

Richard Ruppel,
Brand Technical Specialist – Data and AI for IBM Z

Agenda

- Introduction of SQL Data Insights
- AI semantic queries
- Introduction of SQL Data Insights Pro
- Features in Pro
- Use Cases and Industry Starter Kit
- Q&A

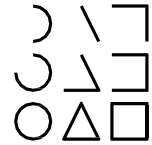
The Problem

Data is rich, Insights are hard to unlock.

Enterprise data is growing rapidly —but insight is not keeping pace.



Data is fragmented across structured and unstructured sources



Traditional SQL retrieves exact matches—not meaning

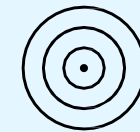


AI adoption is slowed by:

- Data movement complexity
- Skill gaps
- Integration overhead

Result

Valuable insights remain hidden in your data



AI is Changing Data Interaction

AI will redefine how we explore enterprise data



From queries → **Discovery**

From syntax → **Intent**

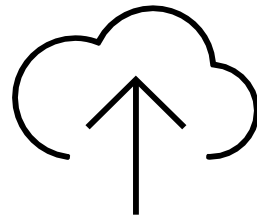
From data access → **Insights Generation**

Why Location Matters for AI Decisions

AI Off-Platform

Off-platform AI creates distance between data and decision, adding:

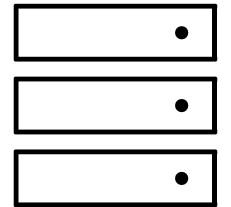
- X Latency penalty
- X Movement costs
- X Compliance risk exposure
- X Infrastructure complexity
- X Competitive disadvantage



AI on IBM Z

Run AI inference on the platforms where mission-critical data lives and decisions actually take place for co-location benefits:

- ✓ Real-time speed advantage
- ✓ Security advantage, no transfer risk
- ✓ Competitive moat



From SQL Queries to Meaning-Based Discovery



Example:

“Find hotels near a national park in Arizona, rating >4.5, under \$300”

Requires:

- Exact filters
- Structured fields
- Complex query logic



Now:

“Recommend a hotel similar to Yellowstone Lodge, but in Arizona”

Requires:

- Understanding meaning
- Interpreting context
- Comparing experience, not just fields



Db2 13 with SQL Data Insights

Uncover and monetize hidden insights in your most important data

Automatically builds an unsupervised, Large Database Model against the Db2 data you tell it to, to answer business questions

Integrates AI within any Db2 application via common SQL – no data scientist required!

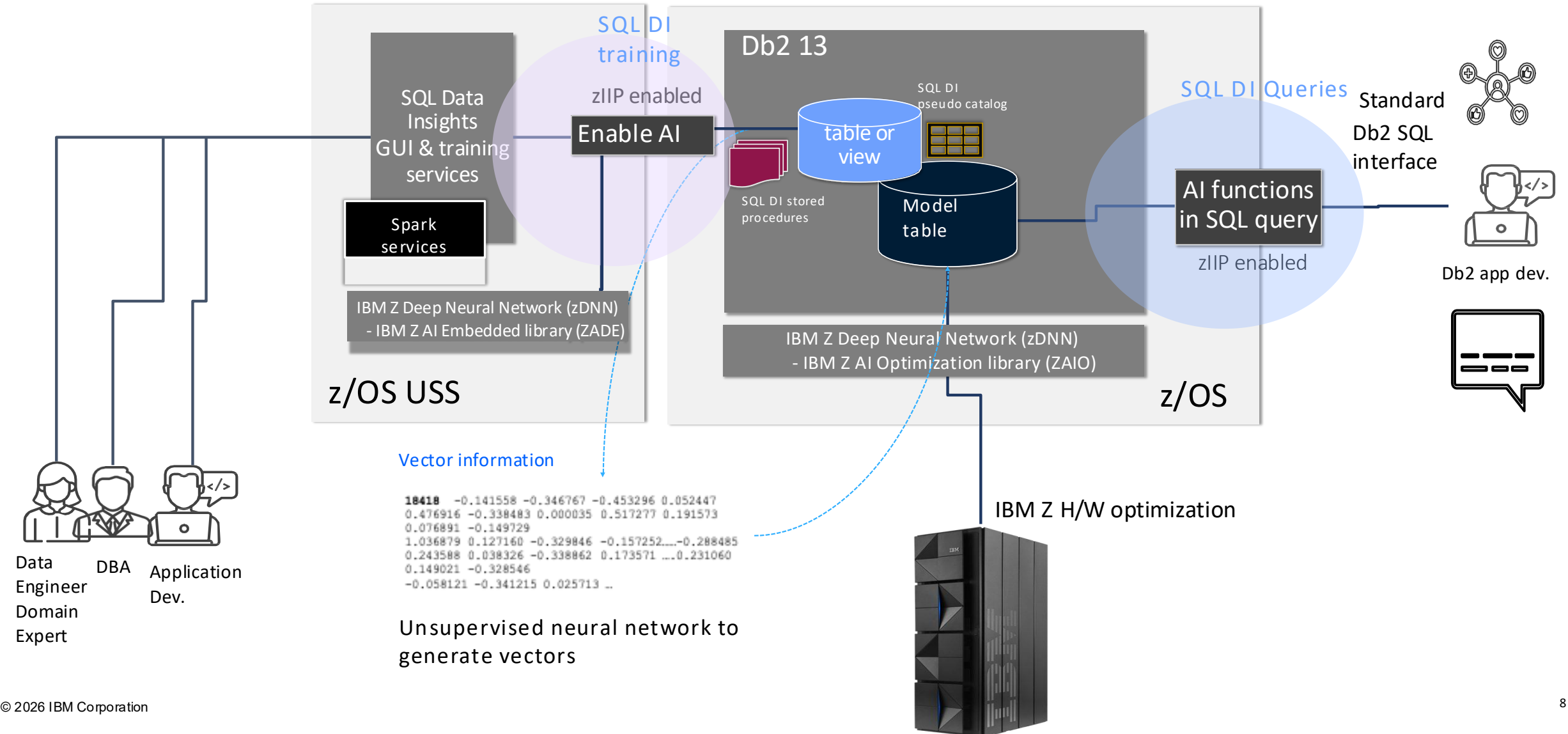
Leverages z stack AI functions (SIMD, zIIPs, Telum, ...)

Ability to execute “fuzzy” queries

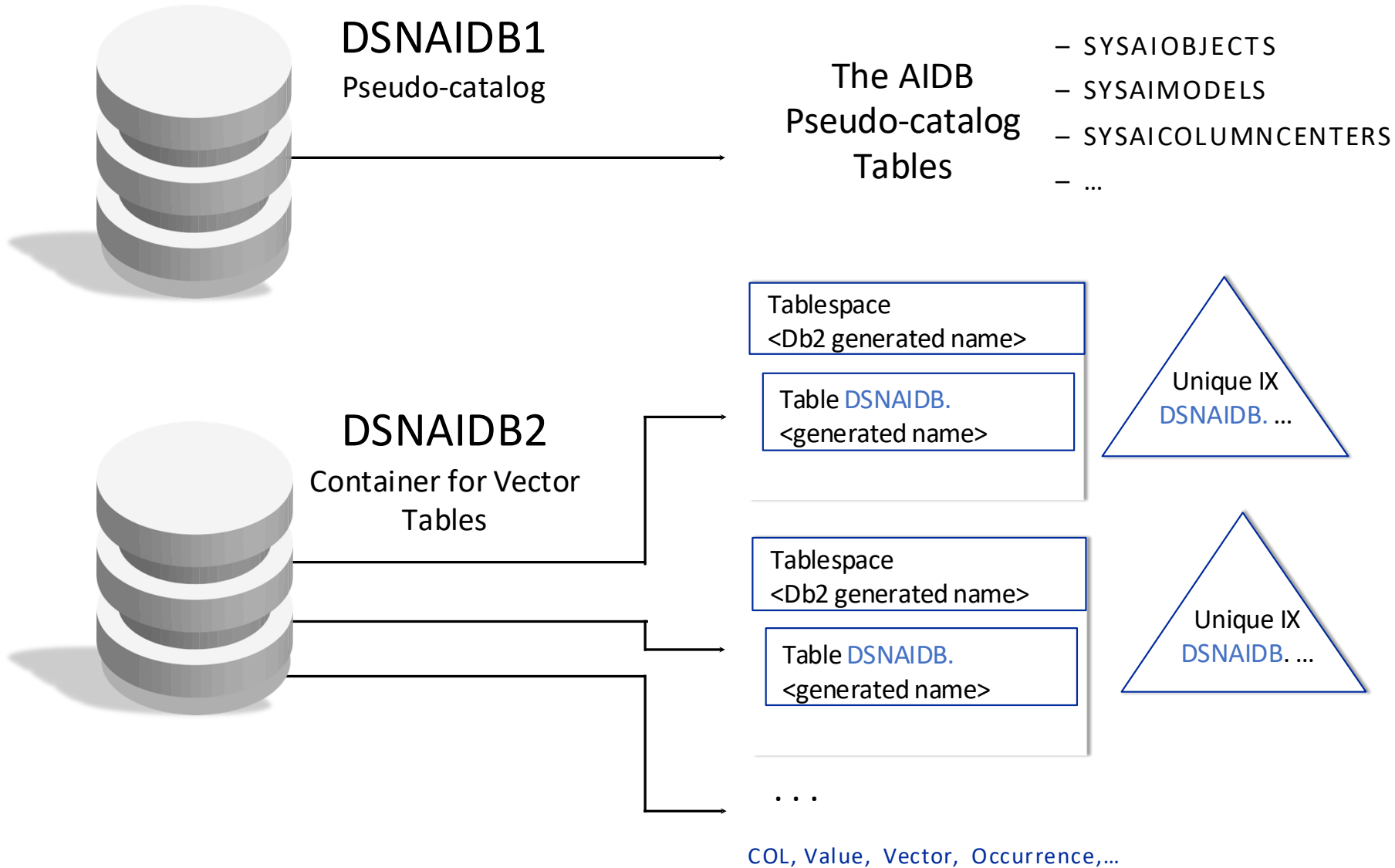
An example: Here is the account ID of someone who engaged in fraudulent activity.

Show me the 1000 accounts most similar to this one

SQL Data Insights – High Level Overview



Db2 database design



Two Databases

- One for “catalog”
- One for model tables

Pseudo-catalog

- Metadata tables for model tables
- Not for regular user access

Model tables

- Created by user via Admin UI through Db2 stored procedures
- Table space, table, indexes are given generated names
- Storage and buffer pool attributes inherited from the database
- Note : model TS pagesize is 16K

SQL Data Insights Training



DSNAIDB1
Pseudo-catalog



DSNAIDB2
Container for Vector
Tables

Tablespace AIDBREM
Table DSNAIDB.AIDB_DEMO_ FOOD

SQLDI

training job

```
code, 1251, <1.8473, 0.3772, -0.3827, 0.2837, 1.286, ... >  
protein, c2, <0.2837, 1.2837, 1.3727, 0.8237, 1.3737, ... >  
fat, c3, <1.2822, 1.9846, 0.8736, -1.8373, 0.8736, ... >  
brand, Nabisco<-0.765, 0.983, -0.876, 0.96d3, 1.3836, ... >  
...
```

model metadata is inserted into
pseudocatalog tables

Vector table is created in DSNADB2.
Vector data is populated by zLoad

COL, Value, Vector, Occurrence,...

Example table: Food

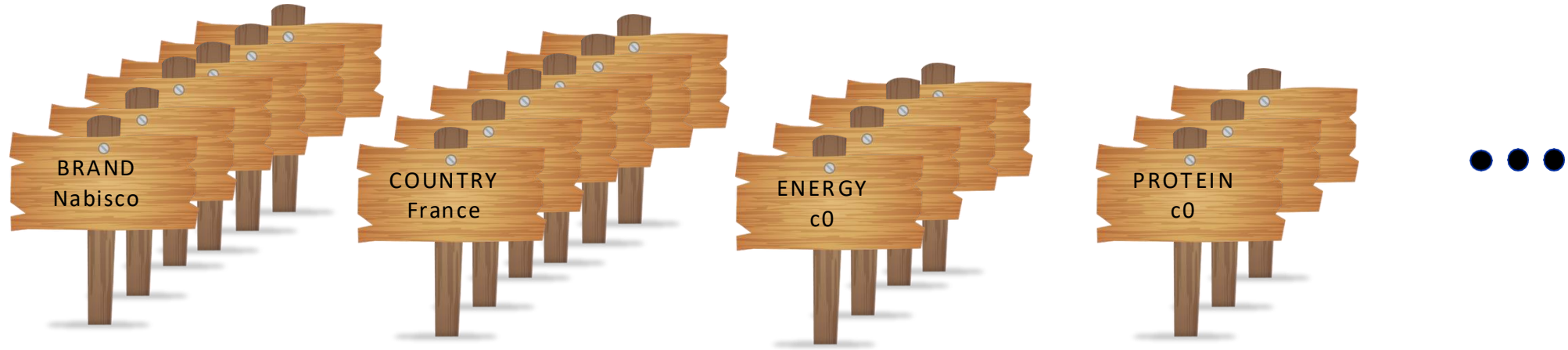
source: <https://www.kaggle.com/datasets/openfoodfacts/world-food-facts>

260K food products from 58 countries with nutritional information

CODE	PRODUCT NAME	BRANDS	ENERGY 100G	FAT 100G	SUGARS 100G	PROTEIN 100G	SODIUM 100G	... 86 more numeric nutritional columns
16087	Organic Salted Nut Mix	Grizzlies	2540.0	57.14	3.57	17.86	0.482	...
16124	Organic Muesli	Daddy's Muesli	1833.0	18.75	15.62	14.06	0.055	...
16872	Zen Party Mix	Sunridge	2230.0	36.67	3.33	16.67	0.633	...
18012	Cinnamon Nut Granola	Grizzlies	1824.0	18.18	21.82	14.55	0.009	...
18050	Organic Hazelnuts	Grizzlies	2632.0	60.71	3.57	14.29	0.004	...
18227	Organic Oat Groats	Pcc	1096.0	5.95	2.38	16.67	0.01	...
...
260171 distinct product codes	187562 distinct product names	48034 Distinct brands						

Concepts about SQL DI Training

Imagine: one signpost for every value in the table



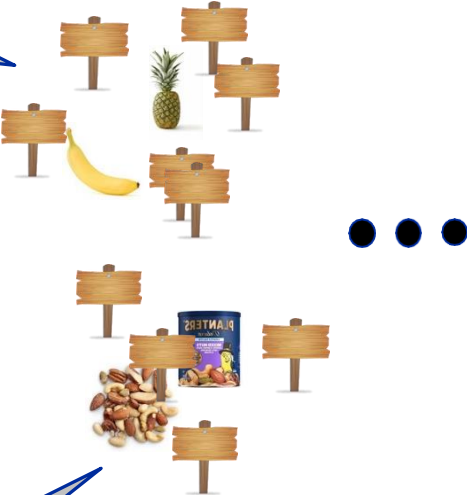
How to arrange every product to be near the signs that describe them?



Concepts about SQL DI Training

The final “model” is a full placement of every (255,474) sign and every (260,172) product.

Fruit and salad



Nuts

SQL DI models are arranged in 320-dimensional space



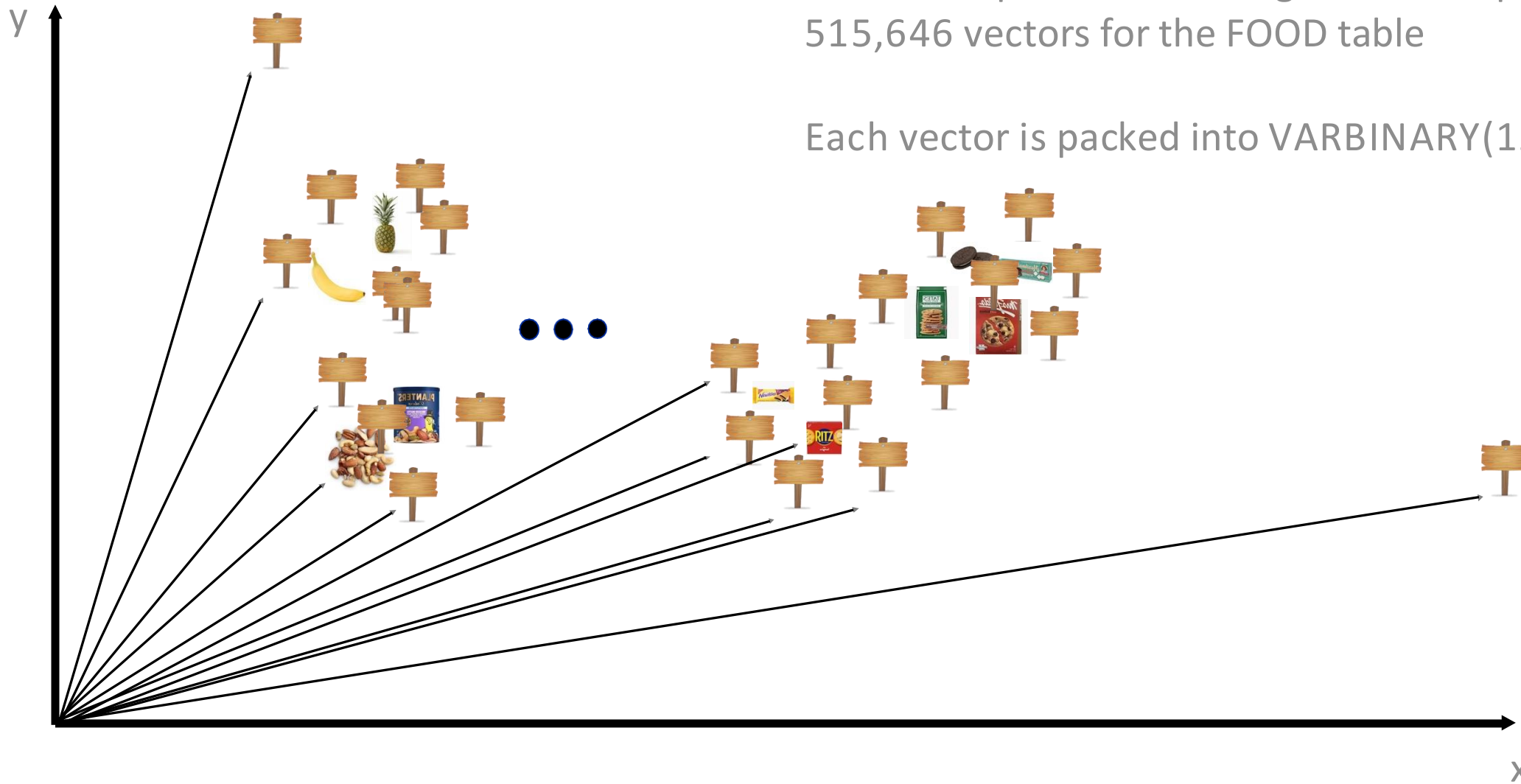
Cookies

Crackers

Concepts about SQL DI Training

A vector represents each sign and each product
515,646 vectors for the FOOD table

Each vector is packed into `VARBINARY(1280) = 320*4`



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SQL DI Similarity Query

What foods are most similar to Oreo cookies (code '44000007492')?



1.0 = most similar
-1.0 = most dissimilar

```
SELECT F.CODE, F.PRODUCT_NAME, F.BRANDS, AI_SIMILARITY('44000007492', CODE) AS SIMI
FROM DEMO.FOOD F
WHERE PRODUCT_NAME NOT LIKE '%Oreo%'
ORDER BY SIMI DESC
FETCH FIRST 10 ROWS ONLY
```







CODE	PRODUCT_NAME	BRANDS	SIMI
4400002007	Mini Chips Ahoy!	Nabisco	0.886
44000088453	Nutter Butter 12 packs	Nabisco	0.884
418930	Soft baked originals milk chocolate chip	Mrs.Fields	0.864
14100074359	Milano Orange Flavored Chocolate	Pepperidge Farm	0.849
81029102115	Chocolate chip cookies	Tate's bake shop	0.848
24300041112	Marshmallow Pies	Little Debbie	0.845
14100079477	Milano Cookies-Mint Chocolate	Pepperidge Farm	0.838
703741000178	Colossal Chocolate Chip Cookie	Alternative Baking Company	0.831
44000012625	Newtons Fruit Thins	Newtons,Nabisco	0.831
14100079521	Chessmen	Pepperidge Farm	0.831

SQL DI Analogy Query

What foods are analogous to Oreo cookies in other countries?

```
WITH COUNTRIES (COUNTRY) AS
(SELECT 'France' FROM SYSIBM.SYSDUMMYU
 UNION ALL SELECT 'Belgium' FROM SYSIBM.SYSDUMMYU
 UNION ALL SELECT 'Germany' FROM SYSIBM.SYSDUMMYU
 UNION ALL SELECT 'Switzerland' FROM SYSIBM.SYSDUMMYU
 UNION ALL SELECT 'United Kingdom' FROM SYSIBM.SYSDUMMYU)
SELECT F.*
FROM COUNTRIES C,
TABLE (SELECT D.COUNTRIES_EN, D.PRODUCT_NAME, D.BRANDS,
         AI_ANALOGY('United States' USING MODEL COLUMN COUNTRIES_EN,
                   '44000007492' USING MODEL COLUMN CODE,
                   COUNTRIES_EN,
                   CODE) AS ANALOGY_SCORE
      FROM DEMO.FOOD D
 WHERE D.COUNTRIES_EN = C.COUNTRY
 ORDER BY ANALOGY_SCORE DESC
 FETCH FIRST 1 ROW ONLY) F
WHERE C.COUNTRY = F.COUNTRIES_EN
```

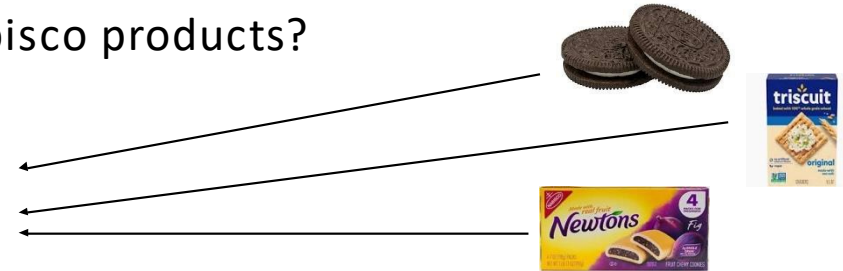
*From a list of countries,
Find the top 1 most analogous food*

COUNTRIES_EN	PRODUCT_NAME	BRANDS	ANALOGY_SCORE
 France	kay Cookies Nougatine & Pépites de Chocolat	Rougier	0.984
 Belgium	Cookies Big Rocks chocolat (x 8)	Carrefour	1.093
 Germany	Creme Cookies	REWE Beste Wahl	1.098
 Switzerland	Abricot biscuits	M-Classic, Migros, Mclassic	1.079
 United Kingdom	shortbread fingers	Walkers	1.157

SQL DI Semantic Cluster Query

What products not branded Nabisco are in the vicinity of Nabisco products?

```
SELECT F.PRODUCT_NAME, F.BRANDS, AI_SEMANTIC_CLUSTER(CODE,
    '44000072742',
    '44000027957',
    '44000042257') AS SEM_SCORE
FROM DEMO.FOOD F
WHERE BRANDS NOT LIKE '%Nabisco%' AND BRANDS NOT LIKE 'Oreo'
ORDER BY SEM_SCORE DESC
FETCH FIRST 5 ROWS ONLY
```



AI_SEMANTIC_CLUSTER: Find a midpoint of up to 3 vectors, and compute distance from that point



PRODUCT_NAME	BRANDS	SEM_SCORE
Soft baked originals milk chocolate chip	Mrs.Fields	0.845
Chocolate chip cookies	Tate's bake shop	0.829
Chocolate Chip Cookie Dough	Toll House,Nestlé	0.828
Chocolate Chip	Famous Amos	0.824
Cinnamon Schoolbook Cookies	Trader Joe's	0.824

SQL DI Commonality Query

Is Oreo an outlier in our food nutritional model?

```
WITH COMMONALITY_SCORES AS  
(SELECT CODE, PRODUCT_NAME, AI_COMMONALITY(CODE) AS COMM_SCORE FROM DEMO.FOOD)
```

```
SELECT 'Max', CS.PRODUCT_NAME, CS.COMM_SCORE  
FROM COMMONALITY_SCORES CS  
WHERE CS.COMM_SCORE = (SELECT MAX(S.COMM_SCORE) FROM COMMONALITY_SCORES S)
```

```
UNION ALL  
SELECT 'OREO', CS.PRODUCT_NAME, CS.COMM_SCORE  
FROM COMMONALITY_SCORES CS  
WHERE CS.CODE = '44000007492'
```

```
UNION ALL  
SELECT 'Min', CS.PRODUCT_NAME, CS.COMM_SCORE  
FROM COMMONALITY_SCORES CS  
WHERE CS.COMM_SCORE = (SELECT MIN(S.COMM_SCORE) FROM COMMONALITY_SCORES S)
```

	PRODUCT_NAME	COMM_SCORE
MAX	Deliciously Soft Fruit & Nut Confections	0.819
Oreo	Oreo	0.688
MIN	Nouilles Fines Wing Man	0.438



AI_COMMONALITY computes a distance from the center of the model

Closest to center of the model

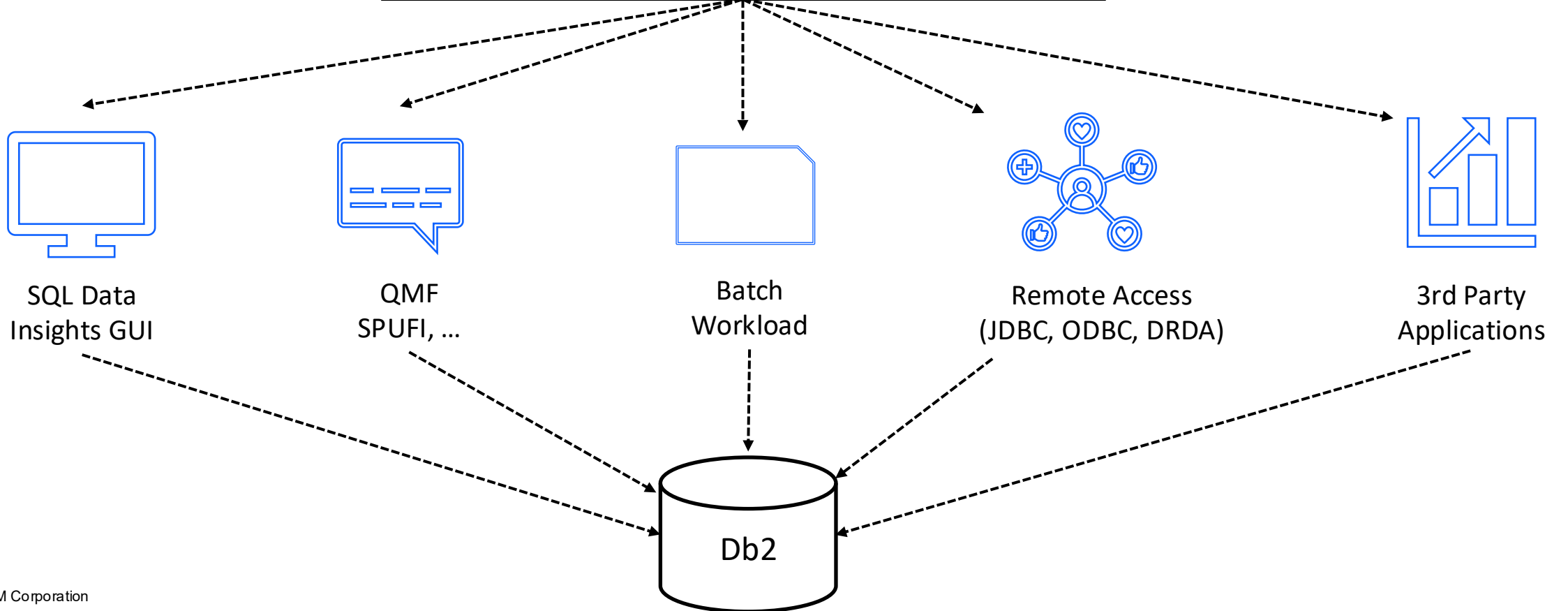
Close to center of the model

Furthest from center of the model



Power any Db2 for z/OS application with AI enhanced SQL

```
SELECT CustomerID,  
       AI_SIMILARITY('3668-QPYBK',  
                    CustomerID) AS Report1  
FROM USER.DATA_TABLE  
ORDER BY 2 DESC  
FETCH FIRST 5 ROWS ONLY;
```



Introducing:

IBM SQL Data Insights Pro

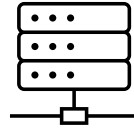
AI-powered extension for IBM Db2 for z/OS
that brings vector-based intelligence and
semantic understanding directly to data on IBM
Z - without moving data off-platform.



SQL Data

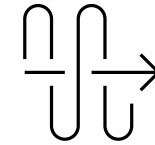
Insights Pro

Key capabilities



Unified Data Embeddings

AI-powered analysis of structured and unstructured data (e.g., comments, logs, descriptions).



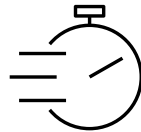
Optimized Training Infrastructure

Model training execution on IFLs for cost-efficient, high-performance workloads.



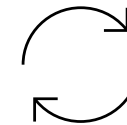
Builds on the foundation of SQL Data Insights

Extending its capabilities with additional advanced features



Accelerated Performance on IBM Z

Integration with IBM Z hardware accelerators (AIU on Telum I & II) to optimize text embedding.



Incremental Retraining

Support for incremental model training using only changed data.

SQL Data Insights Pro

Loan data



Structured data

Unstructured data

Loan performance data

LOAN_SEQ	REPORTING_PERIOD	CREDIT_SCORE	INTEREST_RATE	DLQCY_STATUS
F19Q20040703	5/1/20	681	4.5	0
F19Q20097044	12/1/20	813	4.65	9

Loan description

LOAN_SEQ	Description
F19Q20040703	A 30-year fixed-rate mortgage
F19Q20097044	interest rate and principal payment stay the same for the life of the loan.

Granite-Embedding-278m-Multilingual

Telum-zAIU

K-Means Cluster

Large Database Model

Unified vector data

```
SELECT AI_SIMILARITY(LOAN_SEQ_NUM
, 'F19Q10245260'
USING MODEL COLUMN LOAN_SEQ_NUM)
AS SIMILARITY_SCORE, . . .
```

Vectors now includes the information based on descriptions



Loan Reviewer

IBM SQL Data Insights Pro

Change version

1.1.0

 Show full table of contents

Filter on titles

welcome to IBM SQL Data Insights Pro

Overview of SQL DI Pro

Planning for SQL DI Pro installation

System requirements

Installation and configuration roadmap

Installing and configuring SQL DI Pro

Enabling and running AI queries

Administering SQL DI Pro

SQL DI Pro REST APIs

SQL DI Pro shell commands

Db2 tables for SQL DI Pro

Db2 subsystem parameter for SQL DI Pro

DSNTIP81: Performance and optimization panel 2

MAX AI DATA CACHING field (MXAIDTCACH subsystem parameter)

Db2 built-in functions for SQL DI Pro

AI_ANALOGY

AI_COMMONALITY

AI_SIMILARITY

AI_SEMANTIC_CLUSTER

Db2 SQL statements for SQL DI Pro

CREATE FUNCTION (sourced)

CREATE FUNCTION (inlined SQL scalar)

CREATE FUNCTION (SQL table)

CREATE INDEX

CREATE MASK

CREATE PERMISSION

CREATE TABLE

CREATE VIEW

Roadmap for planning, installing, and configuring SQL Data Insights Pro

Last Updated: 2026-03-31

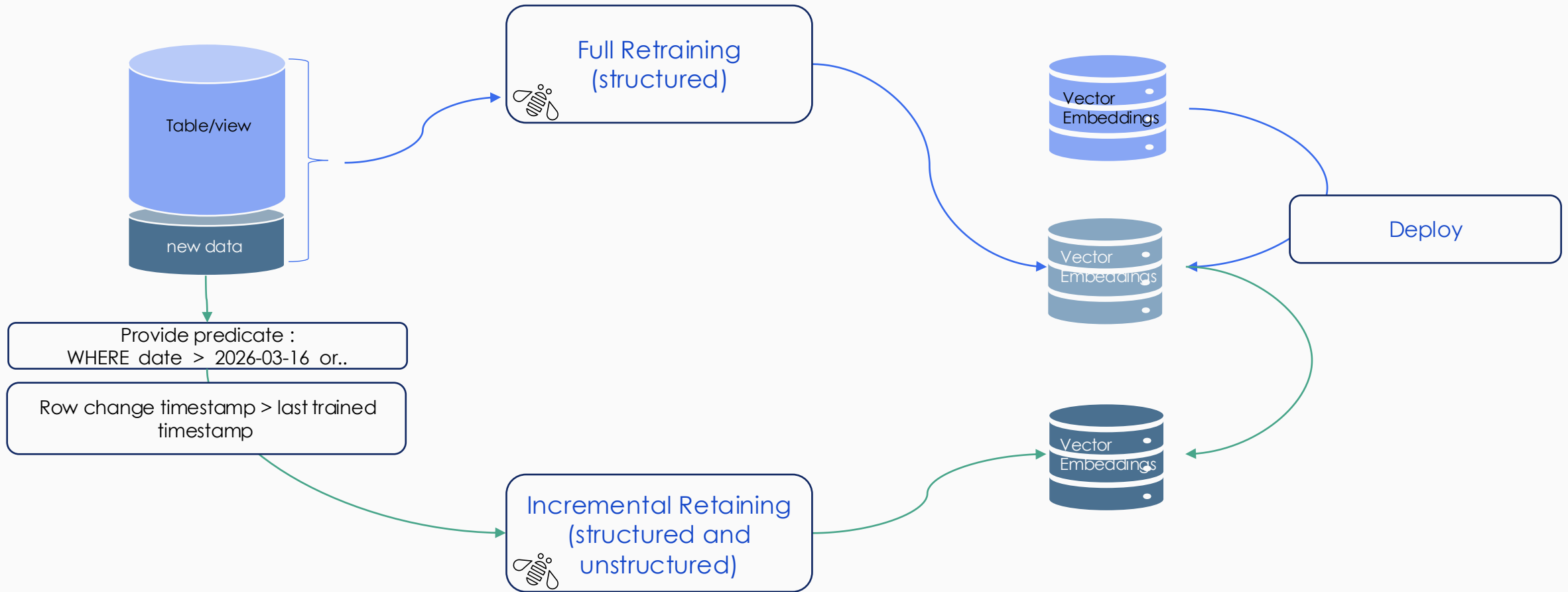
Getting IBM SQL Data Insights Pro (SQL DI Pro) up and running involves a sequence of planning, installation, and configuration tasks that might be best performed by experts in different roles and at different times. Create a high-level plan or roadmap to identify, track, and manage all the tasks and procedures.

Consider using the following roadmap for planning, installing, and configuring your SQL DI Pro:

Sequence	Task and instructions	Priority	Type	Role and skills
Step 1	Meeting system requirements for SQL DI Pro installation	Required	Planning, installation, configuration	z/OS® system administrator or programmer, Db2® system or database administrator, SQL DI Pro setup user
Step 2	Configuring system capacity and resources for SQL DI Pro	Required	Planning, configuration	z/OS system administrator, MVS system administrator
Step 3	Configuring network ports for SQL Data Insights Pro	Required	Planning, configuration	z/OS system programmer with Unix service system skills, network administrator
Step 4	Configuring setup user ID for SQL DI Pro	Required	Planning, configuration	z/OS system administrator or programmer with Unix service system skills, security administrator
Step 5	Configuring a keyring-based keystore (JCERACFKS) for SQL DI Pro	Required	Configuration	z/OS system administrator or programmer with Unix service system skills and z/OS keyring and keystore skills, network administrator, security administrator
Step 6	Configuring Db2 for SQL DI Pro	Required	Configuration	Db2 system or database administrator
Step 7	Enabling RACF PassTicket support for SQL Data Insights Pro	Optional (<i>Required if you use z/OS Spark for model training and PassTicket for authentication</i>)	Configuration	Db2 database, system, or security administrator
Step 8	Installing and configuring Db2 Analytics Accelerator for z/OS and dependencies	Required	Planning, installation, configuration	z/OS system, USS, security, network, and database administrators
Step 9	Configuring SSL connections for SQL Data Insights Pro	Required	Configuration	z/OS system, network, and security administrators
Step 10	Installing and configuring SQL DI Pro license	Optional (<i>Required if you plan to upgrade your existing Db2 SQL DI feature to the standalone SQL DI Pro</i>)	Installation, configuration	SQL DI Pro setup user, z/OS system programmer with Unix shell skills
Step 11	Installing and configuring the SQL DI server	Required	Installation, configuration	SQL DI Pro setup user, z/OS system programmer with Unix shell skills
Step 12	Verifying the installation and configuration of SQL DI Pro by using the web UI	Required	Installation, configuration	z/OS system administrator or programmer, Db2 system or database administrator, SQL DI Pro setup user
Step 13	Managing SQL DI Pro user permissions	Optional (<i>Required for post-installation configuration</i>)	Configuration, administration	Db2 administrator, SQL DI Pro administrator or setup user

The roadmap consists of the following elements:

SQL Data Insights Pro



SQL Data

Insights Pro

Next

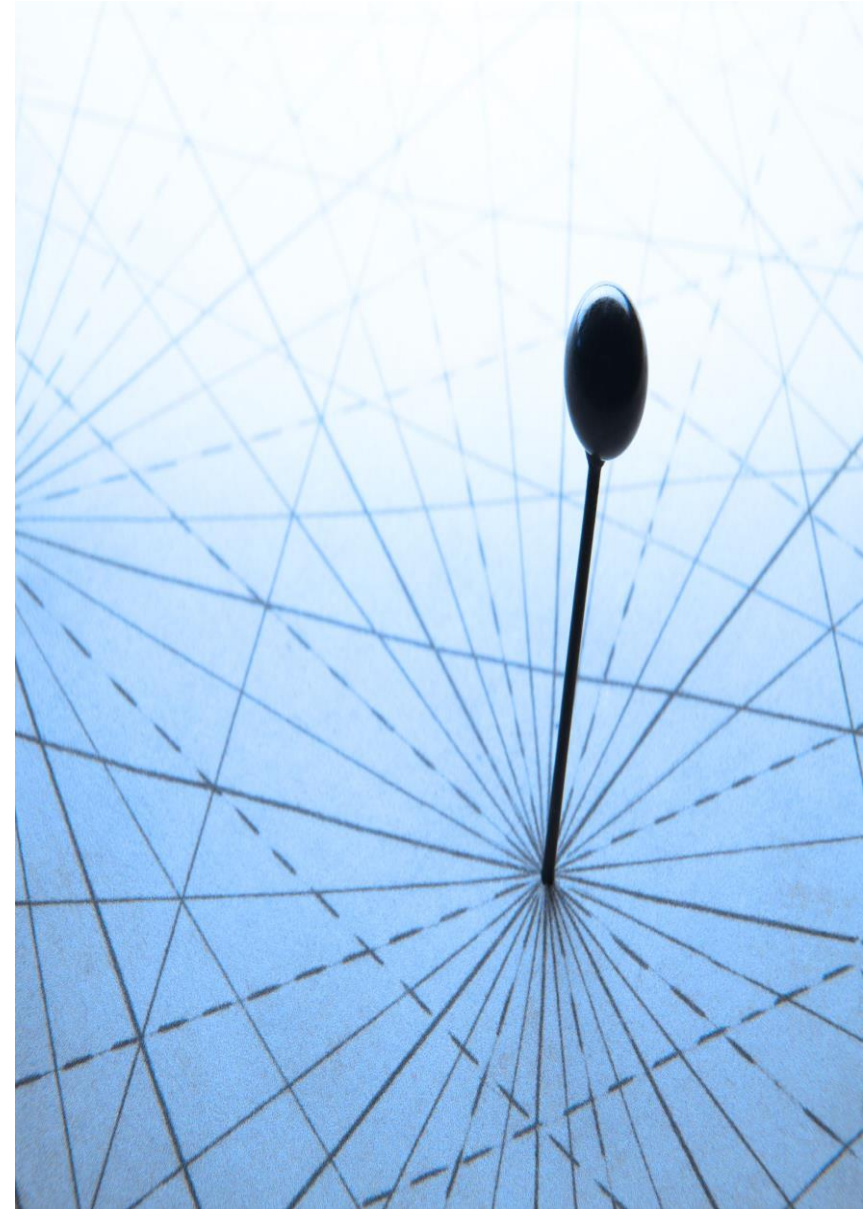
Further adaption of IBM Z AI
acceleration

Model customization

Reasoning - detail explanation of
ranking

Prediction

Combined with GenAI capability



SQL Data Insights Pro Business Value

SQL Data Insights Pro adds AI models to Db2 that understand data meaning, enabling semantic queries—running securely on IBM Z without moving data.

More Relevant Insights

Get answers based on meaning — not just exact matches

Faster decisions

AI insights directly from Db2
No waiting on data pipelines

Low cost

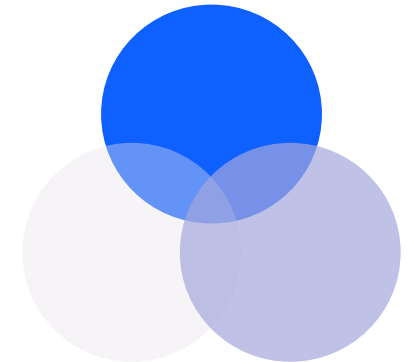
No data movement
No duplication
No additional infrastructure

Reduced Risks

Data stays secure and governed on IBM Z

Broader Access to Insights

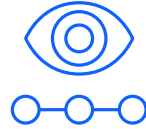
Use familiar SQL to explore AI-driven insights



Use Case

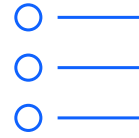
Credit card fraud detection

Industry: Banking



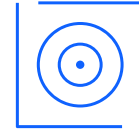
Problem

Fraud teams face massive alert volumes and high false positives(1). Traditional rules miss subtle behavior patterns, slowing investigations.



SDI Pro Capability

Semantic similarity search (finding things that are meaningfully alike, not just exactly the same words or values) across transactions, customer behavior, and merchant descriptions to instantly retrieve past fraud cases that resemble new activity.



Business Outcome

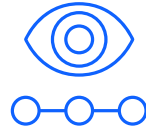
- Faster fraud triage and investigation
- Reduced false positives
- Analysts focus on truly high-risk cases

(1) False positive : The system says “this is bad”, but it’s actually normal

Use Case

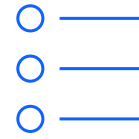
High risk claims detection

Industry: Insurance



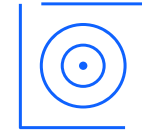
Problem

Claims Adjusters rely heavily on experience to judge whether a claim is typical or risky, leading to inconsistency and long cycle times.



SDI Pro Capability

SQL DI Pro compares new claims against historical claims with similar structured attributes and unstructured adjuster notes, retrieving comparable outcomes instantly.



Business Outcome

- Faster, more consistent claims decisions
- Earlier anomaly and risk detection
- Reduced claim leakage(1) and cycle time(2)

(1) Claim leakage happens when the insurance company pays too much, pays incorrectly, misses fraud or mistakes

(2) Cycle time is how long it takes to process and settle a claim. Shorter = better

SQL Data Insights Pro

Additional Use Cases

Banking:

Apply semantic similarity and anomaly detection to identify transactions, accounts, or behaviors that resemble known risk patterns or deviate from learned norms.

- AML alert prioritization
- Post-transaction anomaly analysis
- Portfolio similarity (mutual fund analysis)
- Fraud ring similarity analysis

Insurance:

Use clustering and behavioral comparison to surface abnormal claim activity and detect patterns across structured claim data and adjuster notes.

- Upsell Opportunities Identification
- Claims anomaly clustering
- Underwriting risk segmentation
- Premium adequacy pattern analysis

Healthcare:

Identify patients with similar conditions or risks to improve care decisions and intervene earlier—using both medical records and clinical notes.

- Find patients similar to those who were readmitted
- Identify who may need follow-up care after discharge
- Detect unusual treatment or billing patterns
- Group patients with similar conditions for better care planning

Cross Industry:

Apply similarity and clustering to identify behavioral affinities that inform retention, targeting, and portfolio strategy.

- Customer churn identification
- Cross-sell / product affinity analysis
- Loyalty segmentation refinement
- Account behavior clustering

Industry Starter Kits

Accelerate adoption of SQL Data Insights Pro with ready-to-use industry use cases

What's included

- Curated sample datasets
 - Prebuilt models
 - Ready-to-run Jupyter notebooks for exploration
 - Prebuilt semantic SQL examples leveraging AI functions
-

Availability

- Initial release focused on Financial Services (banking and insurance)
- Additional industries, including Healthcare, coming next
- Open for collaboration to expand use cases and industry coverage

What this enables:

- ✓ **Explore real use cases**
Work with practical industry scenarios—not abstract concepts
- ✓ **Get started fast**
See results in hours with ready-to-run data and notebooks
- ✓ **Accelerate adoption**
Apply AI-powered SQL to your own data with minimal setup

How to download (free!)

Step 1 : Paste the following URL to your browser

https://ibm.biz/sql dipro_industrystarterkit

Step 2 : Log on with your IBM ID



Log in to IBM

Don't have an account? [Create an IBMID](#)

IBMID

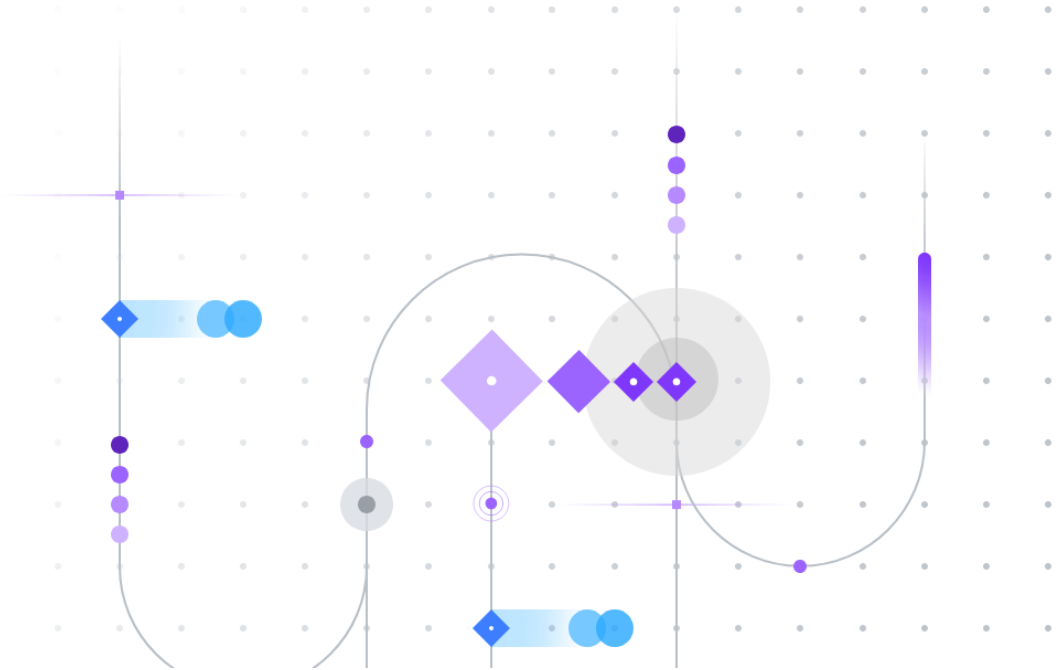
Continue →

Remember me ⓘ

Alternative login

Continue with Google

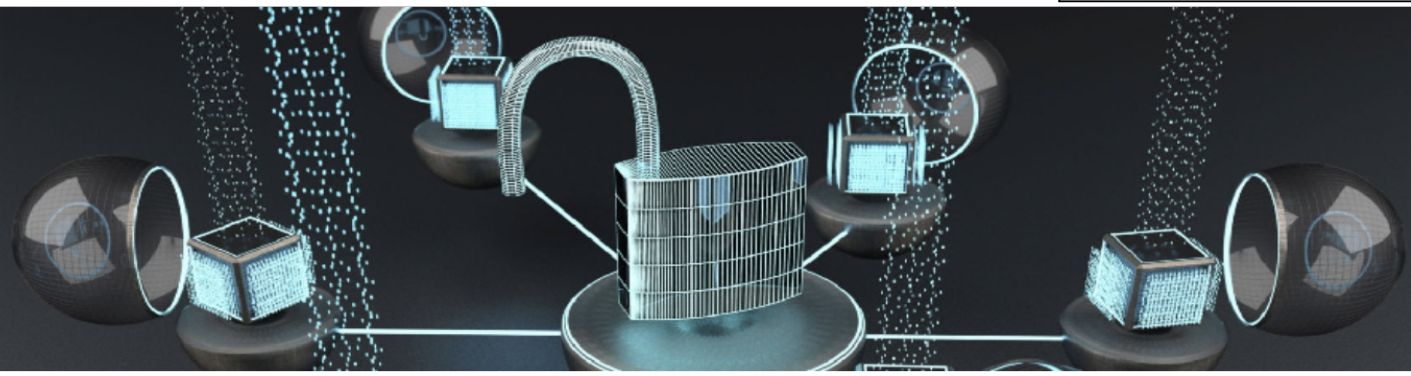
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IBM Db2 for z/OS AI Enterprise Hub

Assets and solutions to accelerate Db2 for z/OS transformation in the AI era

Marketing Registration Services



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IBM Db2 for z/OS AI Enterprise Hub for Multiplatform
English
2026-03-20

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IBM SQL Data Insights Pro Industry Starter Kit - Insurance Underwriting	insurance_underwriting.zip	Insurance Underwriting 510.3 MB	Download ↓

I did a small demo based on the industry pack for credit card transactions. The audience were some of the business and IT professionals working on credit card fraud detection and prevention. They were very interested and asked a lot of questions. The industry pack was a great help to open their minds.

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