



Start HERE...

https://learning.sap.com/learningjourneys/explore-sap-datasphere

https://open.sap.com/courses/dsp1-1

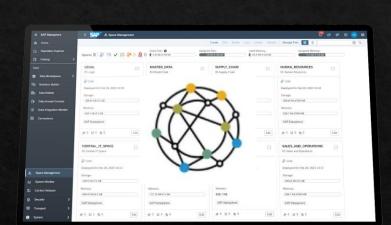


SAP DataSphere







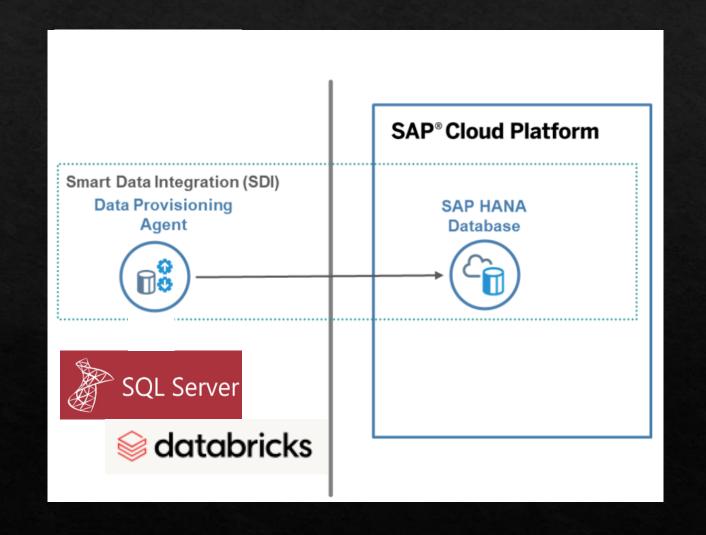


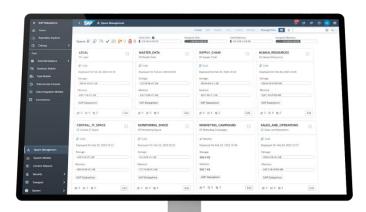


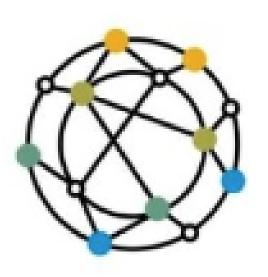




Connecting JDBC?







SAP DataSpherre

- Multiple Data Sources
- Single Data Model
- Multiple Presentation Tools

Can you build reports in DataSphere?



Then why do we need DataSphere?

- Datasphere is a modeling tool
 - Replace CDS Views (no ABAP required)
 - Ombine CDS Views and HANA data
 - Direct access to HANA data
 - ⋄ Combine SQL, HANA, and other sources
 - Create data models, analytical datasets

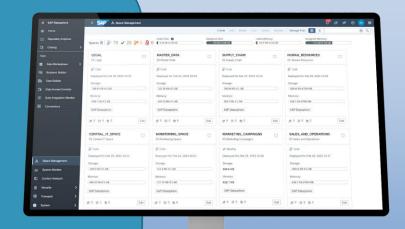


 Other tools (like AFO, SAC, PowerBI) consume that data and provide the visualizations

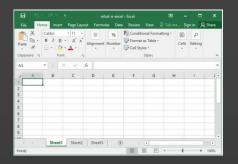
Roles and responsibilities



Technical Team adds Remote table definitions



Data Modelers
Create Views and Presentable
Data



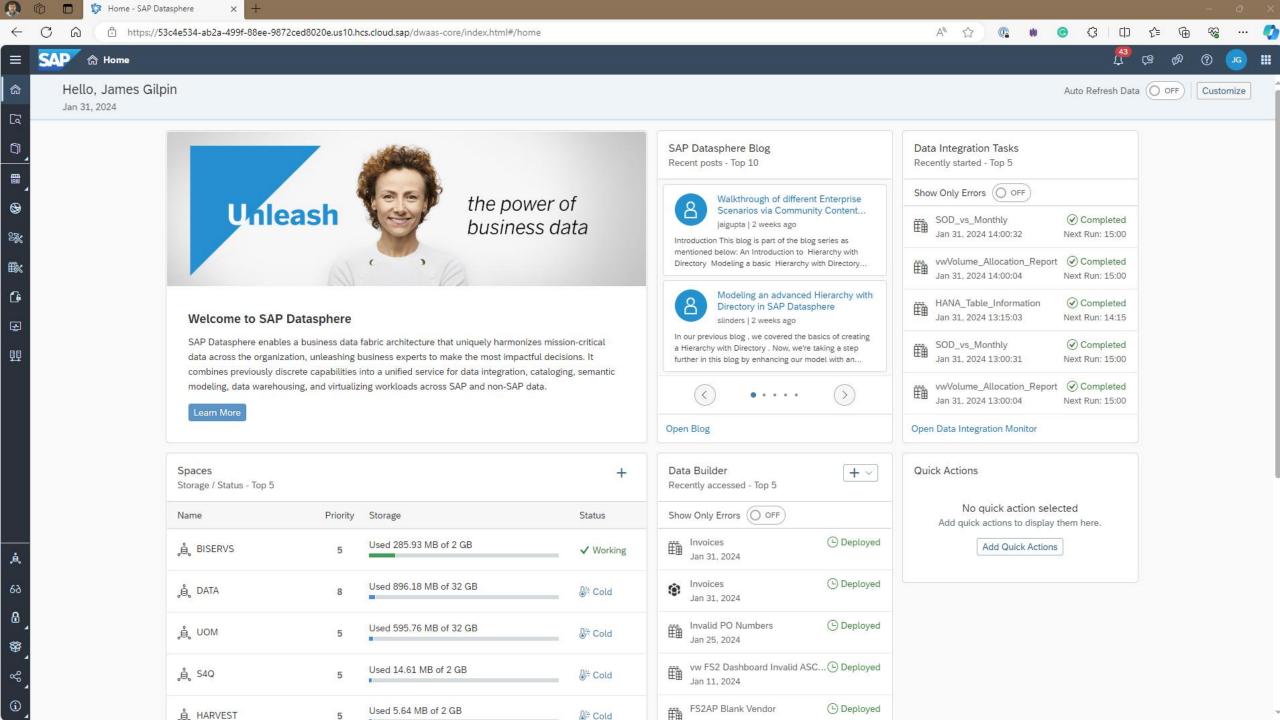


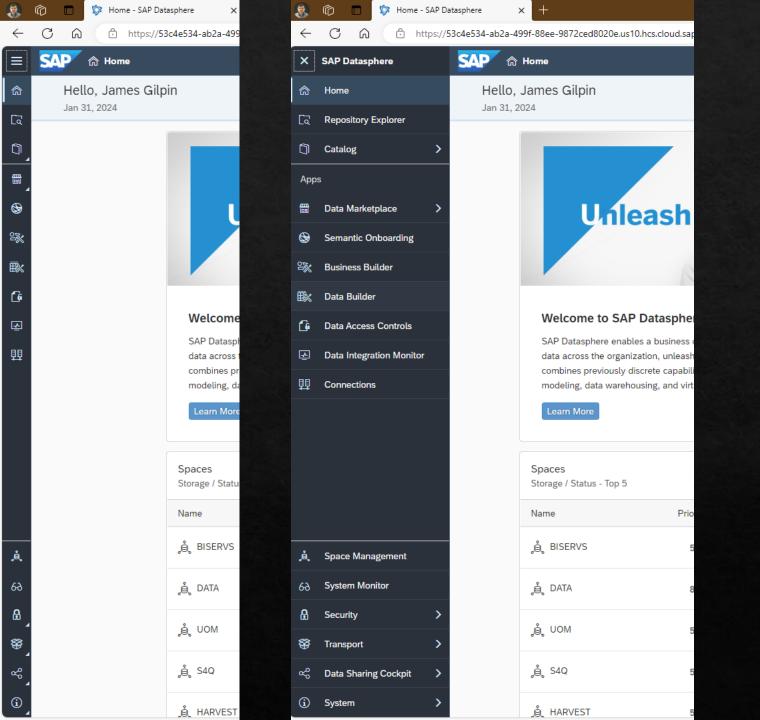
Data Consumers use Views and Presentable Data to build Reports and Dashboards

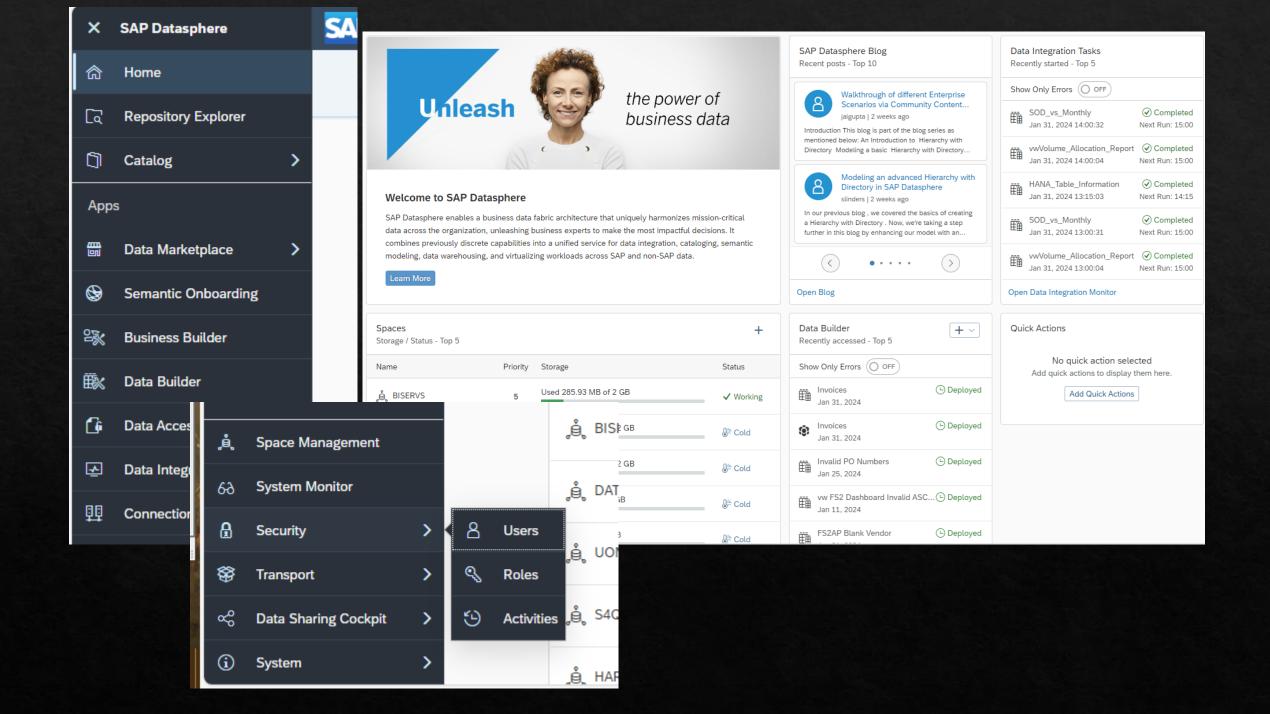


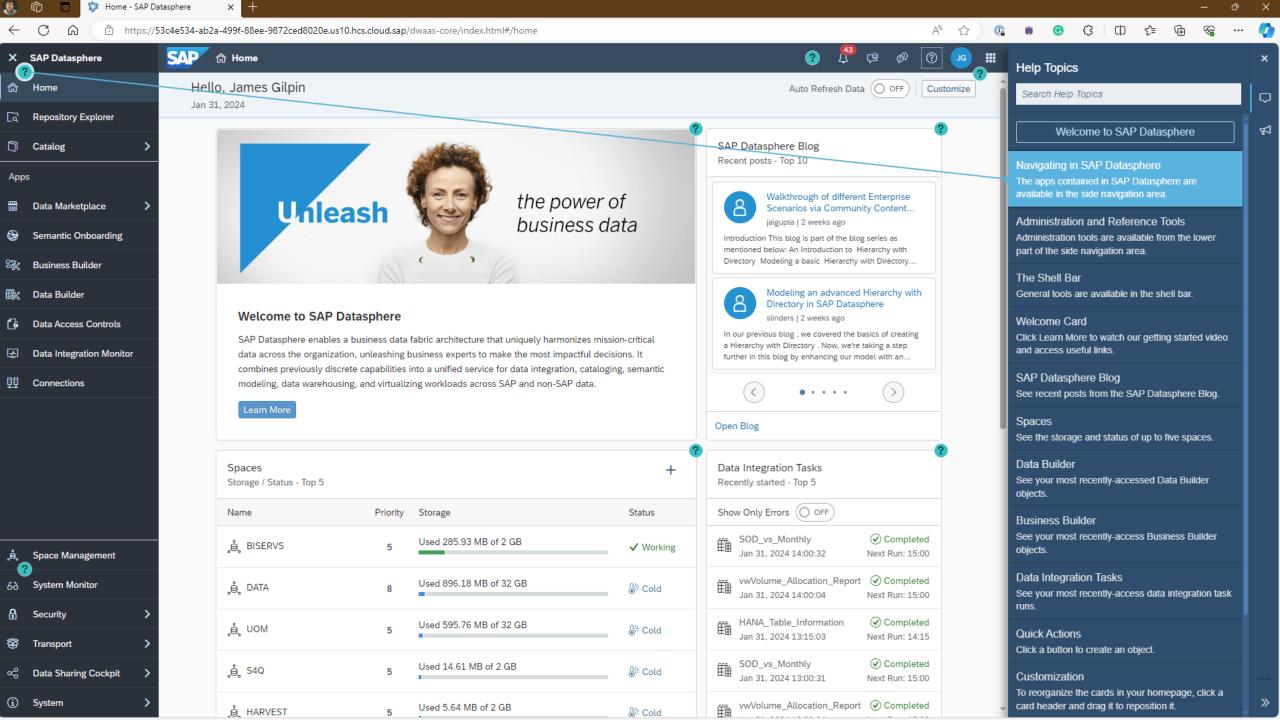
SAP DataSphere

♦ Note: A live demonstration will be performed – what follows are the notes and associated screen shots



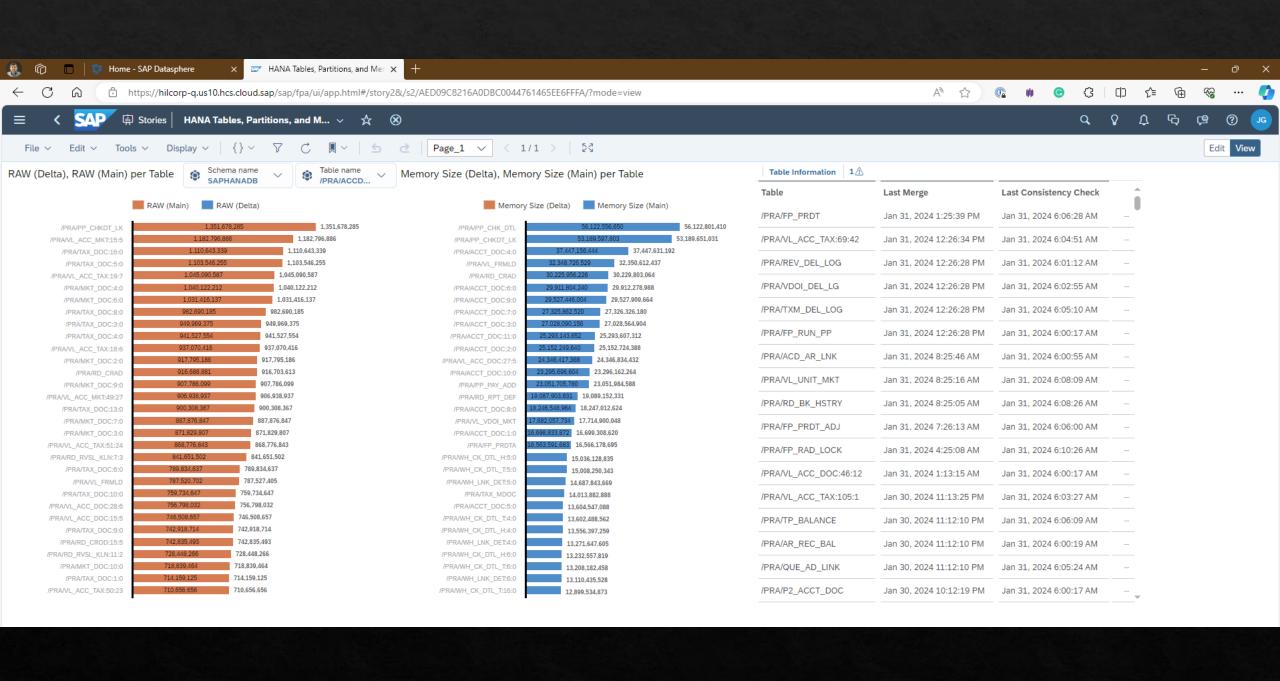


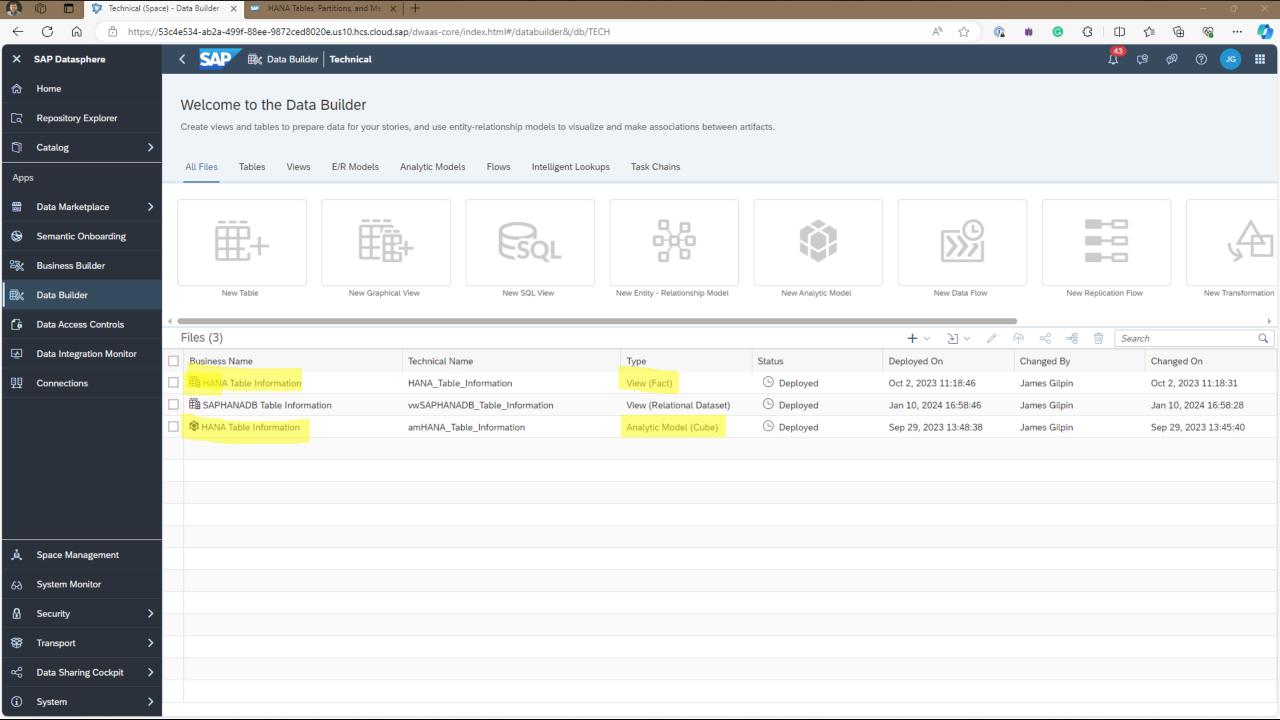


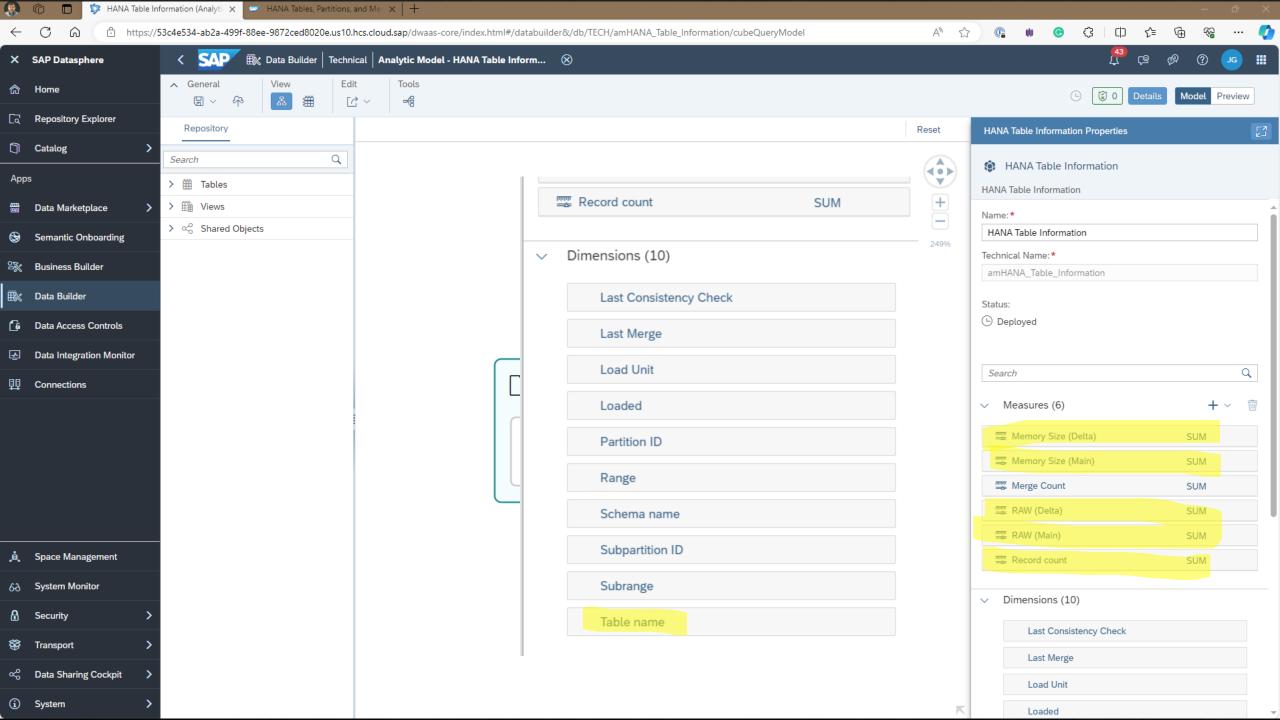


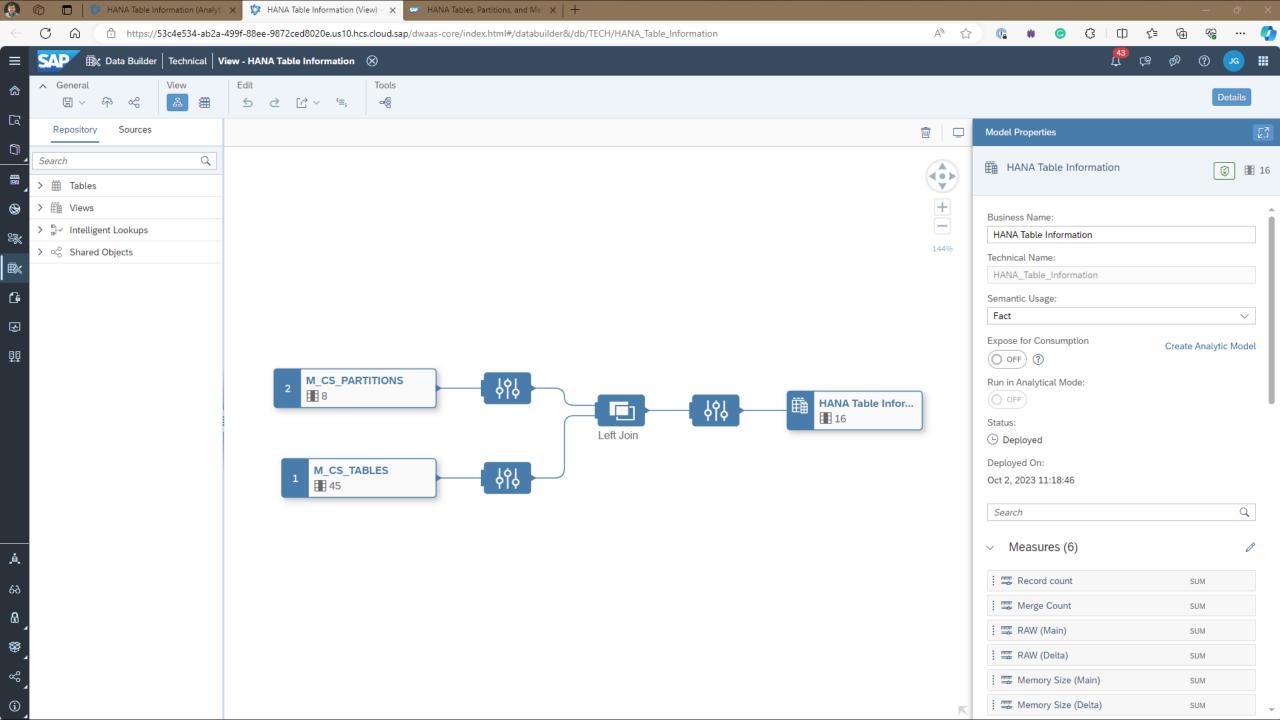
Consuming the data

SAP Analytics Cloud









```
👊 SQL 📑 Result

□ SELECT

    "M CS TABLES O". "SCHEMA NAME",
    "M CS TABLES O". "TABLE NAME",
    "M CS TABLES O". "PART ID",
    "M CS TABLES O". "LOAD UNIT",
    "M CS PARTITIONS 1". "SUBPARTITION",
    "M CS TABLES O"."LOADED",
    "M CS TABLES O". "RECORD COUNT",
    "M CS PARTITIONS 1". "RANGE",
    "M CS PARTITIONS 1". "SUBRANGE",
    "M CS TABLES O". "MERGE COUNT",
    "M CS TABLES O". "RAW RECORD COUNT IN MAIN",
    "M CS TABLES O". "RAW RECORD COUNT IN DELTA",
    "M CS TABLES O". "MEMORY SIZE IN MAIN",
    "M CS TABLES O". "MEMORY SIZE IN DELTA",
    "M CS TABLES O"."LAST MERGE TIME",
    "M CS TABLES O"."LAST CONSISTENCY CHECK TIME"
  FROM (SYS.M CS TABLES AS "M CS TABLES 0" LEFT JOIN SYS."M CS PARTITIONS" AS "M_CS_PARTITIONS_1" ON "M_CS_TABLES_0"."SCHEMA_NAME" = "M_CS_PARTITIONS_1"."SCHEMA_NAME" AND
  "M CS TABLES O". "TABLE NAME" = "M CS PARTITIONS 1". "TABLE NAME" AND "M CS TABLES O". "PART ID" = "M CS PARTITIONS 1". "PART ID")
  order by "M CS TABLES O". "RECORD COUNT" DESC
```

ADB /PF ADB /PF ADB /PF ADB /PF ADB FAG	ABLE_NAME PRA/PP_C PRA/VL_A PRA/TAX PRA/TAX AGL_SPLIN	0 15 16 5	COLUMN PAGE PAGE	5	PARTI PARTI	RECORD_COUNT 1,526,091,694 1,165,391,435		SUBRANGE	MERGE_COUNT	RAW_RECORD_COUNT_IN_MAIN 1,526,075,133	RAW_RECORD_COUNT_IN_DELTA 16,561		MEMORY_SI ^
ADB /PF ADB /PF ADB /PF ADB FAC	PRA/VL_A PRA/TAX	15 16 5	PAGE PAGE	5	PARTI				15	1 526 075 133	16 561	E0 0E1 767 076	
ADB /PF ADB FAC	PRA/TAX PRA/TAX	16 5	PAGE			1.165.391.435				1,320,013,133	10,501	59,951,767,076	
ADB /PF	PRA/TAX	5		0		.,	2022	00000000	18	1,165,391,435	0	7,657,148,928	
ADB FAC	-		DAGE		PARTI	1,122,011,079	2023		0	1,122,011,079	0	4,410,118,460	
	AGL_SPLIN	0	PAGE	0	PARTI	1,103,546,255	2021		0	1,103,546,255	0	489,328,632	
ADB OIL		U	COLUMN	0	FULL	1,087,117,626			22	1,086,953,448	164,178	28,477,215,680	
	IURV_DOC	0	COLUMN	0	FULL	1,047,042,526			28	1,047,010,512	57,693	30,781,985,931	
ADB /PF	PRA/MKT	4	PAGE	0	PARTI	1,040,122,212	2021		0	1,040,122,212	0	634,371,460	
ADB /PF	PRA/MKT	6	PAGE	0	PARTI	1,031,416,137	2022		0	1,031,416,137	0	629,918,632	
ADB /PF	PRA/VL_A	19	PAGE	7	PARTI	1,024,427,155	2022	00000000	18	1,024,427,155	0	7,896,760,856	
ADB AC	CDOCA	0	COLUMN	0	FULL	1,016,539,485			22	1,015,280,780	6,178,150	38,880,377,495	1
ADB /PF	PRA/TAX	8	PAGE	0	PARTI	982,690,185	2022		0	982,690,185	0	621,833,104	
ADB /PF	PRA/MKT	11	PAGE	0	PARTI	956,298,384	2023		0	956,298,384	0	3,578,637,468	
ADB /PF	PRA/TAX	3	PAGE	0	PARTI	949,969,375	2021		0	949,969,375	0	2,395,201,236	
ADB /PF	PRA/VL_FR	0	COLUMN	0	FULL	947,862,035			50	947,854,841	43,211	38,355,673,136	
ADB /PF	PRA/TAX	4	PAGE	0	PARTI	941,527,554	2021		0	941,527,554	0	371,256,196	
ADB /PF	PRA/VL_A	18	PAGE	6	PARTI	925,626,369	2022	00000000	18	925,626,369	0	5,988,426,644	
ADB /PF	RA/RD_C	0	COLUMN	0	FULL	924,259,988			28	924,183,252	192,863	30,419,383,154	
ADB /PF	PRA/MKT	2	PAGE	0	PARTI	917,795,186	2021		0	917,795,186	0	890,159,680	
ADR /PF	PRA/MKT	9	PAGE	0	PARTI	907 786 099	2023		0	907 786 000	0	4 046 593 552	V
1A 1A 1A 1A 1A 1A 1A	DB	DB /PRA/MKT DB /PRA/VL_A DB ACDOCA DB /PRA/TAX DB /PRA/TAX DB /PRA/TAX DB /PRA/VL_FR DB /PRA/VL_A DB /PRA/VL_A DB /PRA/RD_C DB /PRA/MKT	DB /PRA/MKT 6 DB /PRA/VL_A 19 DB ACDOCA 0 DB /PRA/TAX 8 DB /PRA/MKT 11 DB /PRA/TAX 3 DB /PRA/VL_FR 0 DB /PRA/TAX 4 DB /PRA/VL_A 18 DB /PRA/RD_C 0 DB /PRA/MKT 2	DB /PRA/MKT 6 PAGE DB /PRA/VL_A 19 PAGE DB ACDOCA 0 COLUMN DB /PRA/TAX 8 PAGE DB /PRA/MKT 11 PAGE DB /PRA/TAX 3 PAGE DB /PRA/VL_FR 0 COLUMN DB /PRA/TAX 4 PAGE DB /PRA/VL_A 18 PAGE DB /PRA/RD_C 0 COLUMN DB /PRA/MKT 2 PAGE	DB /PRA/MKT 6 PAGE 0 DB /PRA/VL_A 19 PAGE 7 DB ACDOCA 0 COLUMN 0 DB /PRA/TAX 8 PAGE 0 DB /PRA/MKT 11 PAGE 0 DB /PRA/TAX 3 PAGE 0 DB /PRA/VL_FR 0 COLUMN 0 DB /PRA/TAX 4 PAGE 0 DB /PRA/VL_A 18 PAGE 6 DB /PRA/RD_C 0 COLUMN 0 DB /PRA/MKT 2 PAGE 0	DB /PRA/MKT 6 PAGE 0 PARTI DB /PRA/VL_A 19 PAGE 7 PARTI DB ACDOCA 0 COLUMN 0 FULL DB /PRA/TAX 8 PAGE 0 PARTI DB /PRA/MKT 11 PAGE 0 PARTI DB /PRA/VL_FR 0 COLUMN 0 FULL DB /PRA/TAX 4 PAGE 0 PARTI DB /PRA/VL_A 18 PAGE 6 PARTI DB /PRA/RD_C 0 COLUMN 0 FULL DB /PRA/MKT 2 PAGE 0 PARTI	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 DB ACDOCA 0 COLUMN 0 FULL 1,016,539,485 DB /PRA/TAX 8 PAGE 0 PARTI 982,690,185 DB /PRA/MKT 11 PAGE 0 PARTI 956,298,384 DB /PRA/TAX 3 PAGE 0 PARTI 949,969,375 DB /PRA/VL_FR 0 COLUMN 0 FULL 947,862,035 DB /PRA/TAX 4 PAGE 0 PARTI 941,527,554 DB /PRA/VL_A 18 PAGE 0 PARTI 925,626,369 DB /PRA/RD_C 0 COLUMN 0 FULL 924,259,988 DB /PRA/MKT 2 PAGE 0 PARTI 917,795,186	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 2022 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 2022 DB ACDOCA 0 COLUMN 0 FULL 1,016,539,485 1,024,427,155 2022 DB /PRA/TAX 8 PAGE 0 PARTI 982,690,185 2022 DB /PRA/MKT 11 PAGE 0 PARTI 956,298,384 2023 DB /PRA/TAX 3 PAGE 0 PARTI 949,969,375 2021 DB /PRA/VL_FR 0 COLUMN 0 FULL 947,862,035 DB /PRA/TAX 4 PAGE 0 PARTI 941,527,554 2021 DB /PRA/VL_A 18 PAGE 6 PARTI 925,626,369 2022 DB /PRA/RD_C 0 COLUMN 0 FULL 924,259,988	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 2022 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 2022 00000000 DB ACDOCA 0 COLUMN 0 FULL 1,016,539,485 0	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 2022 0 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 2022 00000000 18 DB ACDOCA 0 COLUMN 0 FULL 1,016,539,485 22 DB /PRA/TAX 8 PAGE 0 PARTI 982,690,185 2022 0 DB /PRA/MKT 11 PAGE 0 PARTI 956,298,384 2023 0 DB /PRA/TAX 3 PAGE 0 PARTI 949,969,375 2021 0 DB /PRA/VL_FR 0 COLUMN 0 FULL 947,862,035 50 DB /PRA/TAX 4 PAGE 0 PARTI 941,527,554 2021 0 DB /PRA/VL_A 18 PAGE 6 PARTI 925,626,369 2022 00000000 18	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 2022 0 1,031,416,137 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 2022 00000000 18 1,024,427,155 DB ACDOCA 0 COLUMN 0 FULL 1,016,539,485 22 1,015,280,780 DB /PRA/TAX 8 PAGE 0 PARTI 982,690,185 2022 0 982,690,185 DB /PRA/MKT 11 PAGE 0 PARTI 956,298,384 2023 0 956,298,384 DB /PRA/TAX 3 PAGE 0 PARTI 949,969,375 2021 0 949,969,375 DB /PRA/VL_FR 0 COLUMN 0 FULL 947,862,035 50 947,854,841 DB /PRA/VL_A 4 PAGE 0 PARTI 941,527,554 2021 0 941,527,554	DB /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 2022 0 1,031,416,137 0 DB /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 2022 00000000 18 1,024,427,155 0 DB /PRA/TAX 8 PAGE 0 PARTI 1,016,539,485 2022 0 982,690,185 0 DB /PRA/TAX 8 PAGE 0 PARTI 982,690,185 2022 0 982,690,185 0 DB /PRA/MKT 11 PAGE 0 PARTI 982,690,185 2022 0 982,690,185 0 DB /PRA/MKT 11 PAGE 0 PARTI 9956,298,384 2023 0 9956,298,384 0 DB /PRA/TAX 3 PAGE 0 PARTI 949,969,375 2021 0 949,969,375 0 DB /PRA/TAX 4	0B /PRA/MKT 6 PAGE 0 PARTI 1,031,416,137 202 0 1,031,416,137 0 629,918,632 0B /PRA/VL_A 19 PAGE 7 PARTI 1,024,427,155 202 0000000 18 1,024,427,155 0 7,896,760,856 0B ACDOCA 0 COLUMN 0 FULL 1,016,539,485 22 1,015,280,780 6,178,150 38,880,377,495 0B /PRA/TAX 8 PAGE 0 PARTI 982,690,185 202 0 982,690,185 0 621,833,104 0B /PRA/MKT 11 PAGE 0 PARTI 956,298,384 2023 0 956,298,384 0 3,578,637,468 0B /PRA/TAX 3 PAGE 0 PARTI 949,969,375 2021 0 949,969,375 0 2,395,201,236 0B /PRA/TAX 4 PAGE 0 PARTI 947,862,035 50

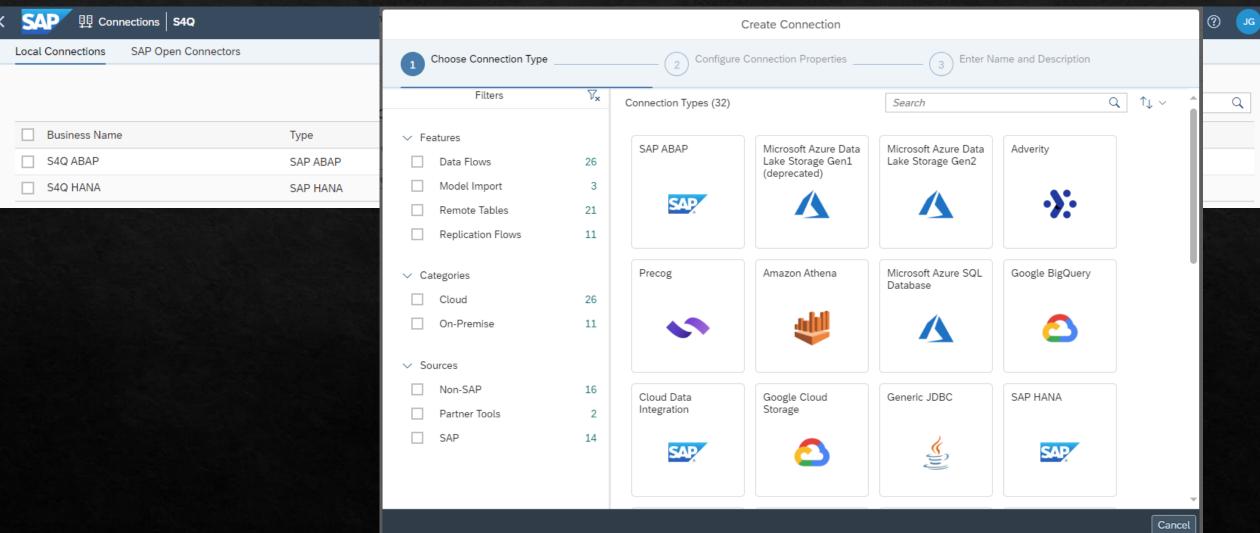
Statement 'SELECT "M_CS_TABLES_0"."SCHEMA_NAME", "M_CS_TABLES_0"."TABLE_NAME", "M_CS_TABLES_0"."PART_ID", ...'
successfully executed in 10.870 seconds (server processing time: 10.850 seconds)

Yetched 1000 row(s) in 26 ms 481 µs (server processing time: 3 ms 517 µs)

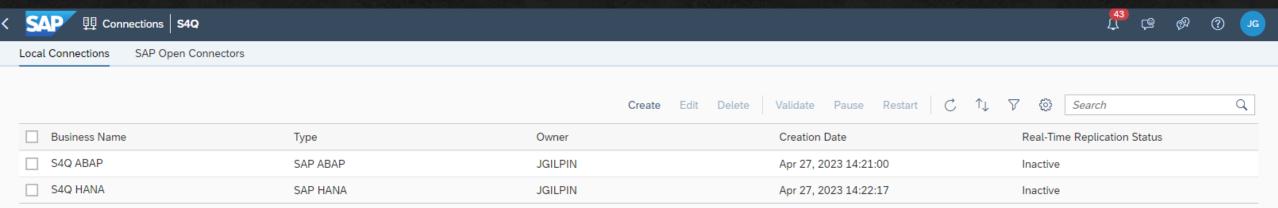
Result limited to 1000 row(s) due to value configured in the Preferences

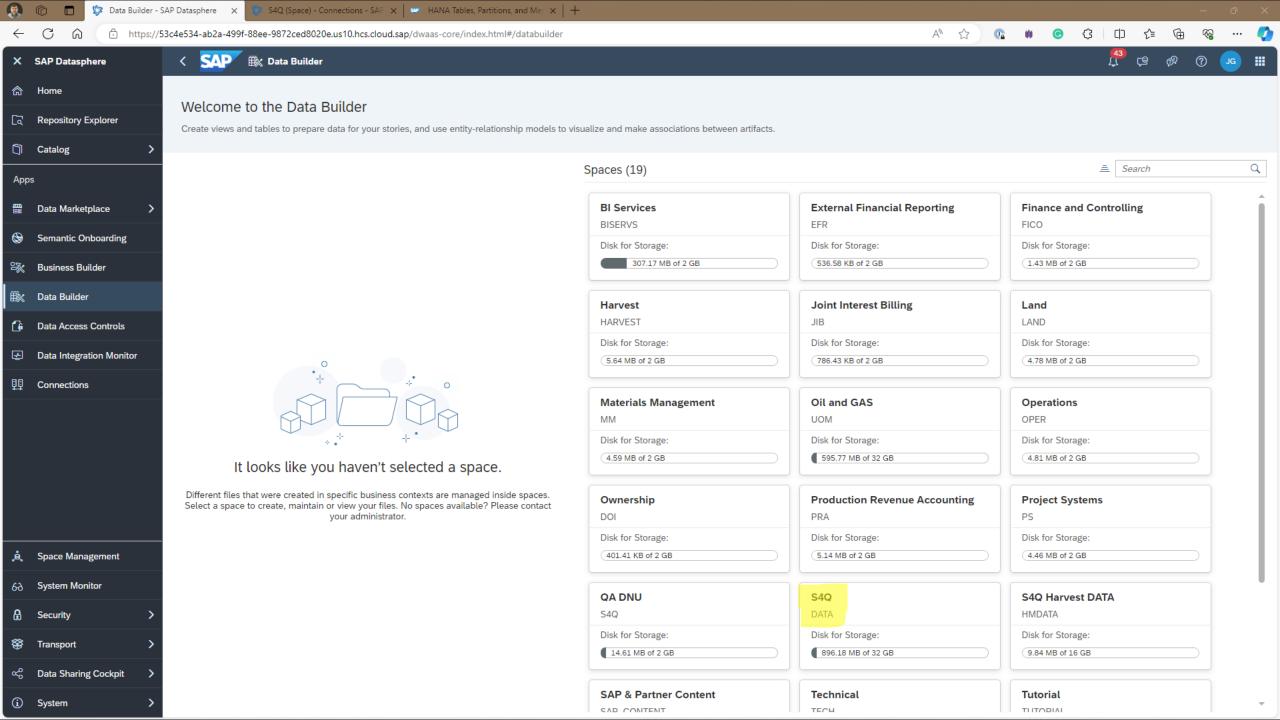


How do you connect Datasphere to DATA?



How do you connect Datasphere to DATA?





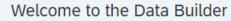












Create views and tables to prepare data for your stories, and use entity-relationship models to visualize and make associations between artifacts.

All Files E/R Models Analytic Models Flows Intelligent Lookups Task Chains Tables Views







New SQL View



New Entity - Relationship Model



New Analytic Model



New Data Flow



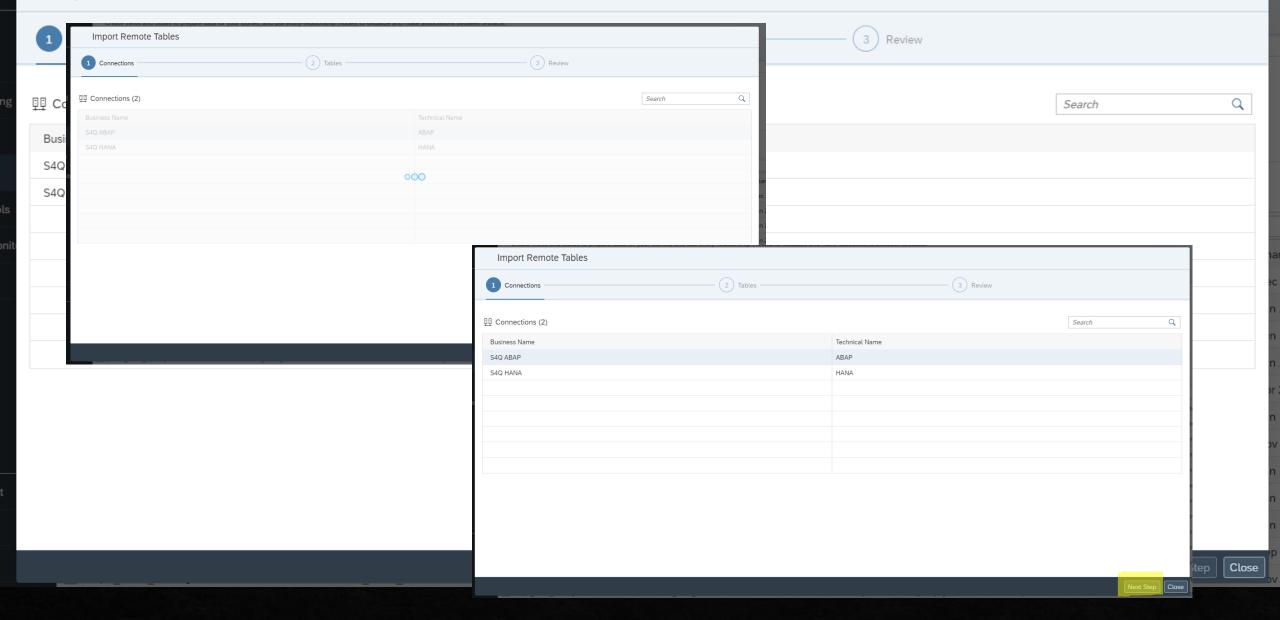
New Replication Flow



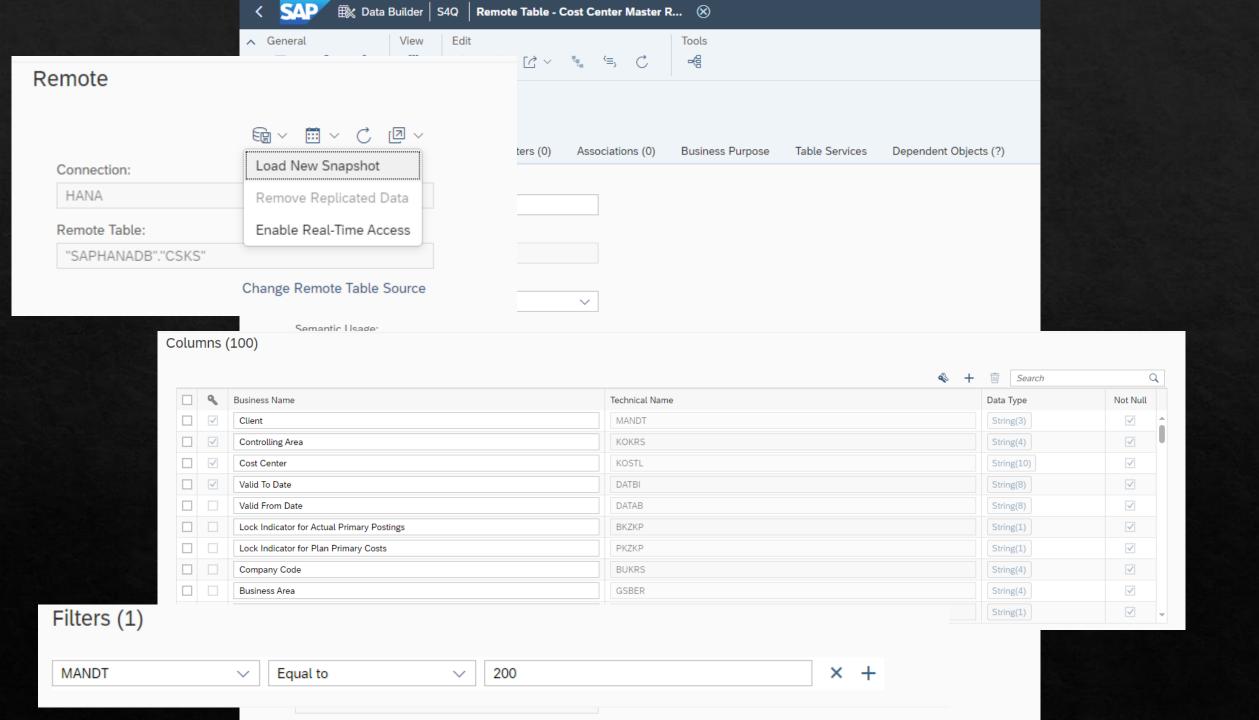
New Transforma

Files (370) + V						≥ ∨ /		
	Business Name	Technical Name	Туре	Status	Deployed On	Import CSV File	Changed On	
		V_CALC_PROD_EXT	Remote Table (Relational	© Deployed	Dec 12, 2023 :	Import Objects from CSN/JSON File	Dec 12, 2023 12:16:09	
	路/DOL/AP_T03S ≪	DOLAP_T03S	Remote Table (Relational	© Deployed	Jan 26, 2024 9	Import Entities	Jan 26, 2024 9:15:41	
	鹍 V_CALC_PROD_WC_STATUS ℅	V_CALC_PROD_WC_STATUS	Remote Table (Relational	© Deployed	Jun 2, 2023 14	Import Remote Tables	Jun 2, 2023 14:46:29	
	鹍/DOL/AP_T02 %	DOLAP_T02	Remote Table (Relational	Deployed	Jan 25, 2024 1	Validate Remote Tables	Jan 25, 2024 11:13:13	

Import Remote Tables



Import Remote Tables 3 Review Tables Connections Remote Tables (9) CSKS S4Q HANA 1 There are more than 1000 items in this folder. Please use the search to find items not yet listed. Search in SAPHANADB/Tables > HODBC Technical Name > JGILPIN □ 鹍 CSKS SAPHANADB □ 路 CSKSTPL Tables □ 既 CSKS_DRAFT > Views □ 鹍 CSKS_MAP > SYS □ 内 MMPUR_EXT_CSKS > _SYS_BI □ 関 OIFOCSKS > _SYS_DI □ 毘 OIRBOCSKS > _SYS_PLAN_STABILITY □ 路 RTC_EXT_CSKS > _SYS_REPO 鹍 VIXCSKSDANP > _SYS_RT > _SYS_SQL_ANALYZER > _SYS_TASK



Share Table "CSKS"									
	Id Spaces: Enter Space Chare Cancel	Access: Read							
~	Shared to 4 Spaces	Unshare	Search			Q			
	Name			Ē	Access				
	Finance and Controlling (FICO)	Read							
	Land (LAND)	Read							
	Production Revenue Accounting (PRA)	Read							
	Project Systems (PS)				Read				
F									
						Close			

Welcome to the Data Builder

Views

E/R Models

Tables

□ BM_CS_PARTITIONS ≪

All Files

Create views and tables to prepare data for your stories, and use entity-relationship models to visualize and make associations between artifacts.

Flows

Intelligent Lookups

Task Chains

Analytic Models

M_CS_PARTITIONS

New Table New Graphical View New SQL View New Entity - Relationship Model New Analytic Model New Data Flow New Replication Flow New Transformation ⊗ Q Files (2) M_CS* Business Name Technical Name Type Status Deployed On Changed By Changed On □ 腾 M_CS_TABLES % Deployed M_CS_TABLES Remote Table (Relational ... Sep 29, 2023 8:30:27 James Gilpin Sep 29, 2023 8:30:12

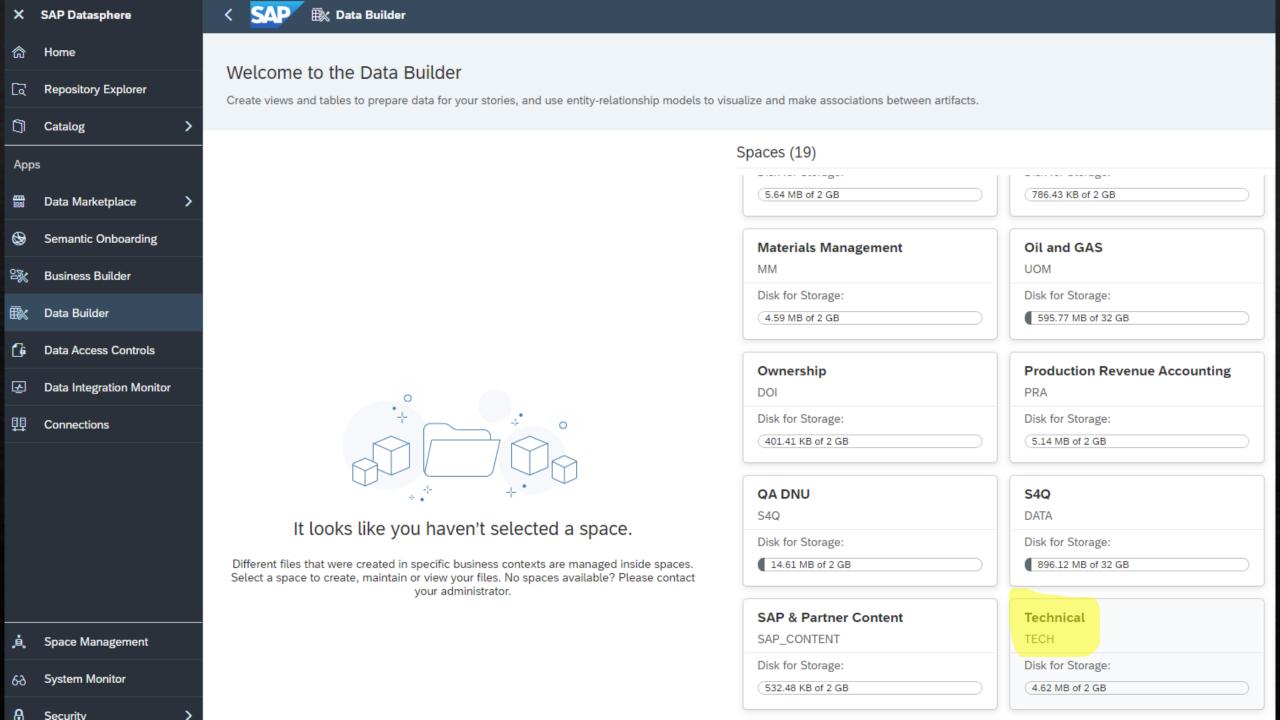
Remote Table (Relational ...

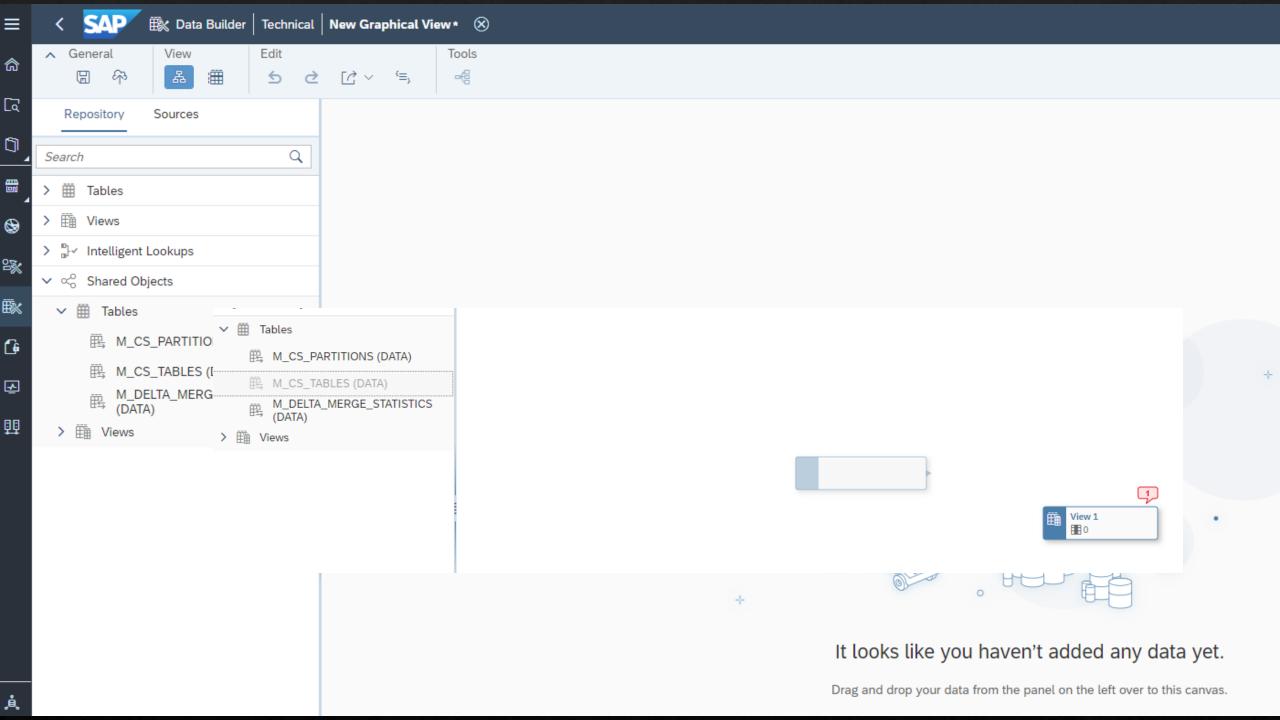
Deployed

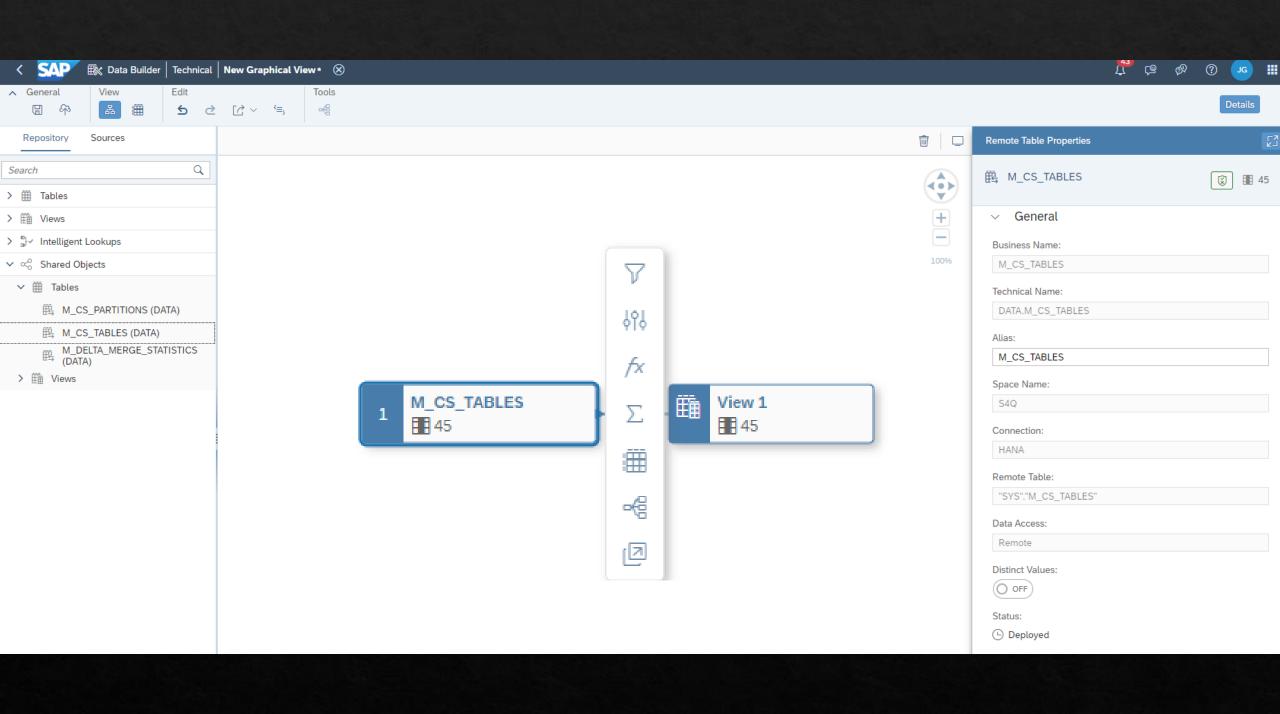
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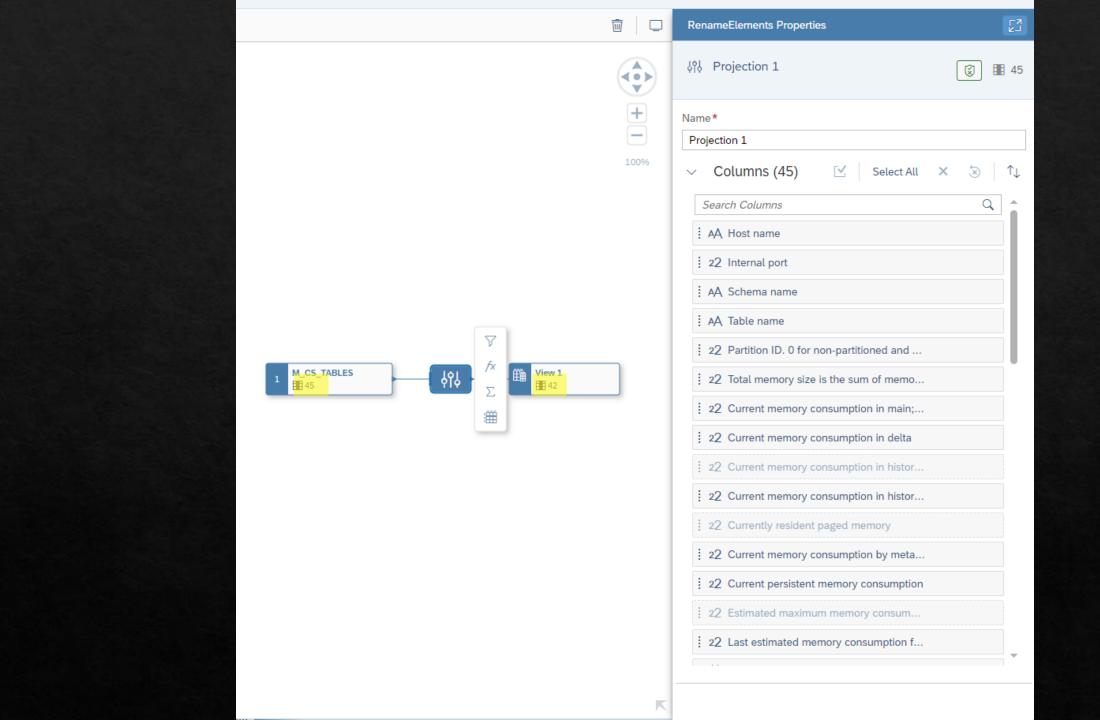
James Gilpin

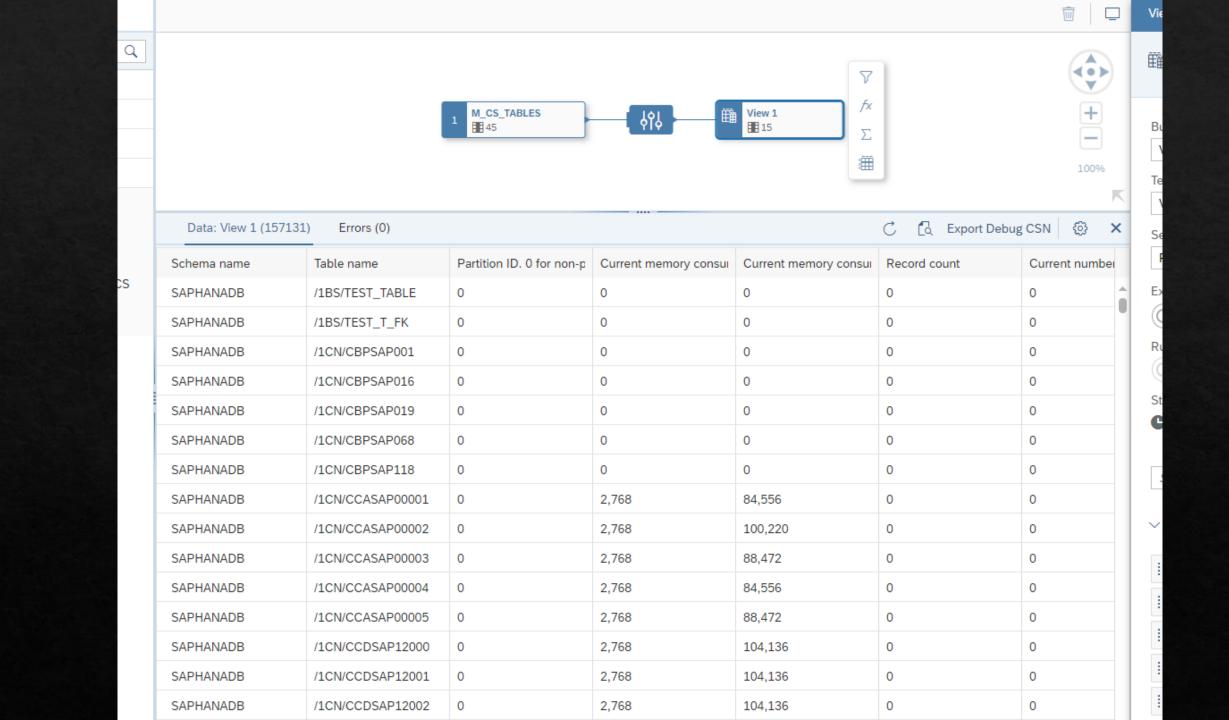
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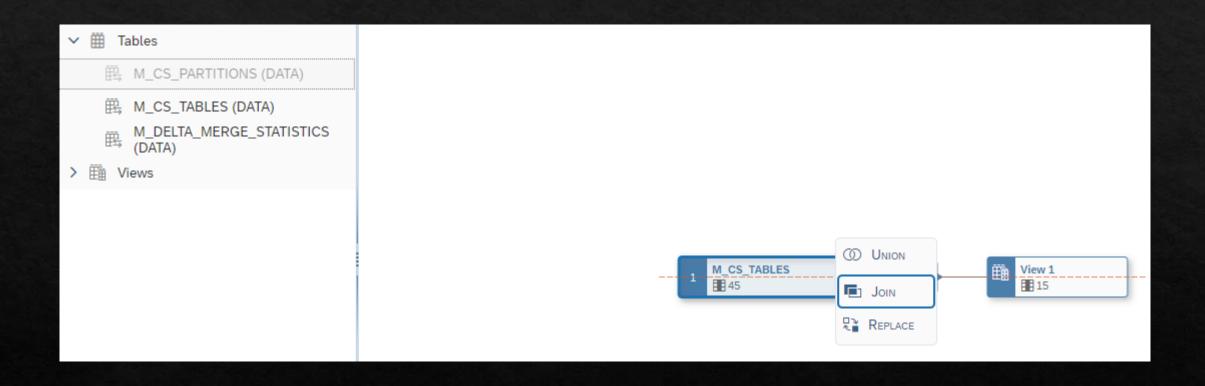


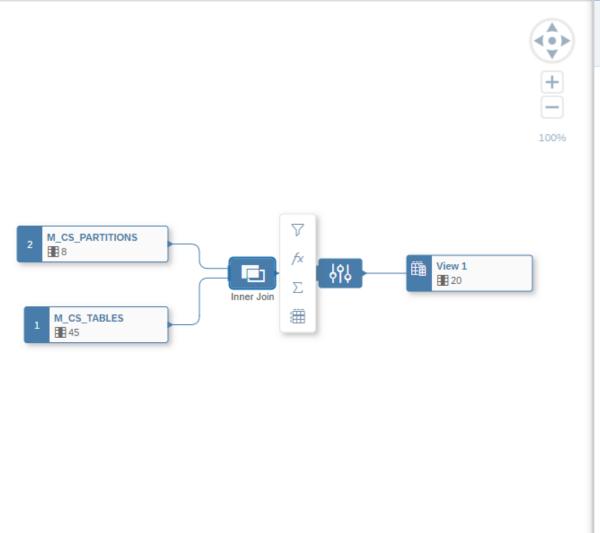


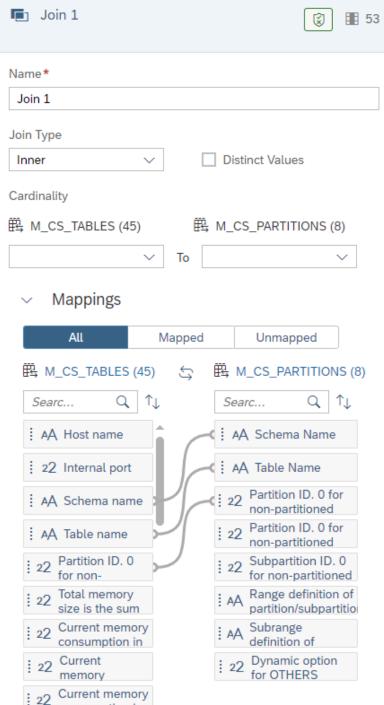


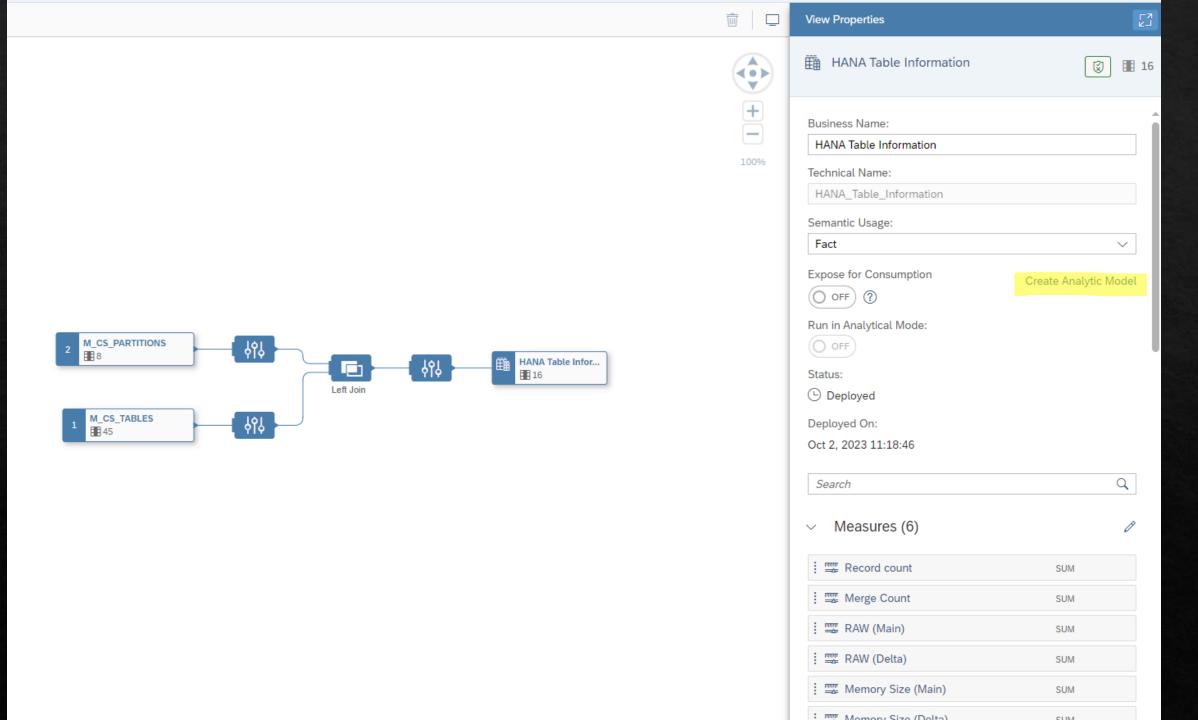


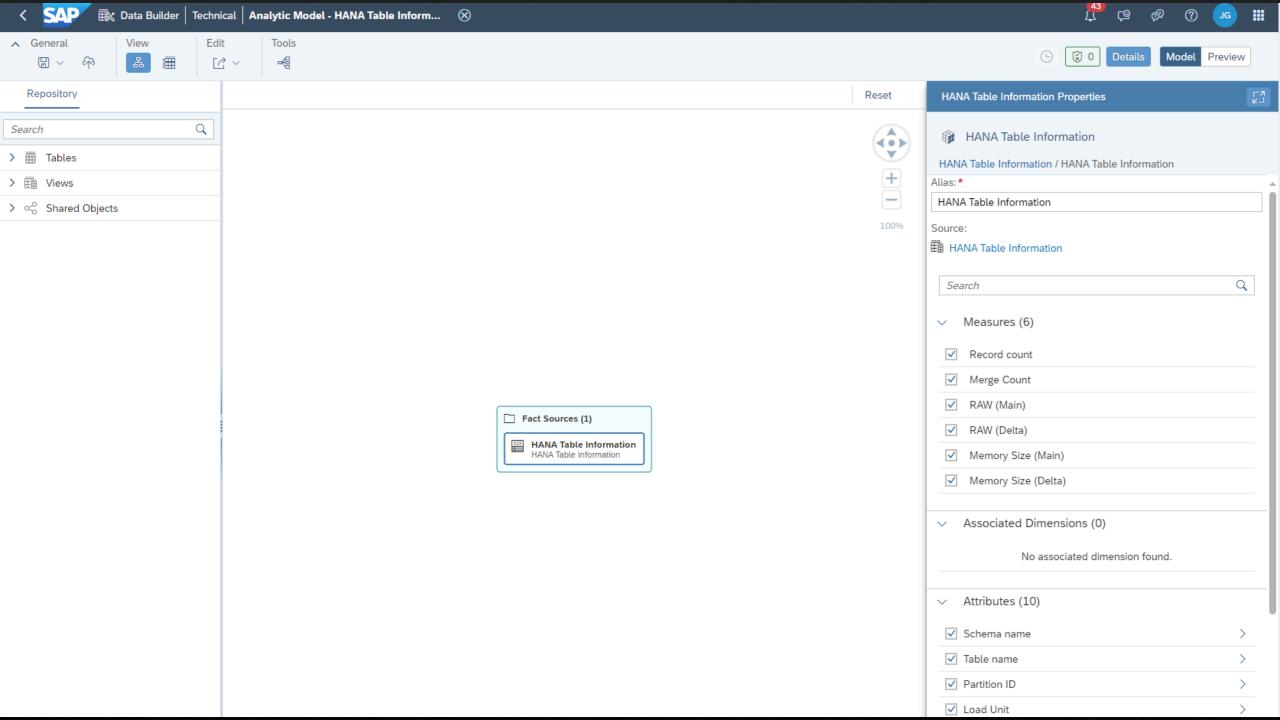


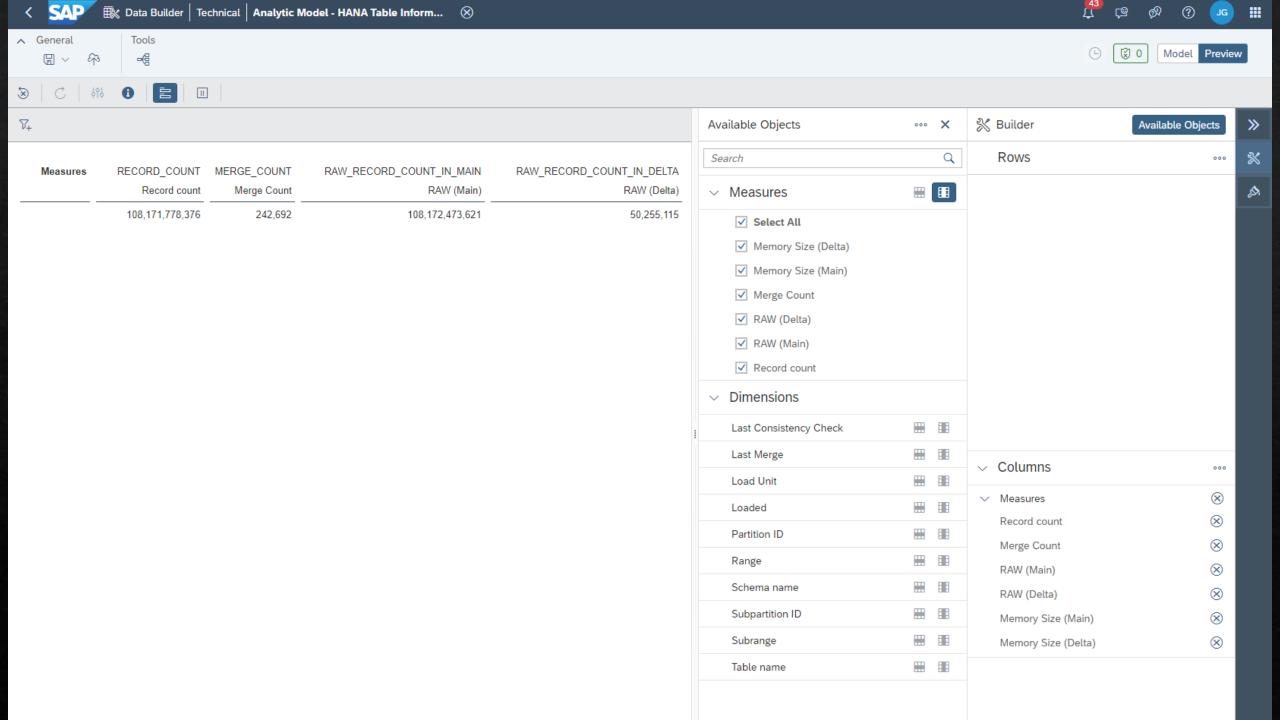


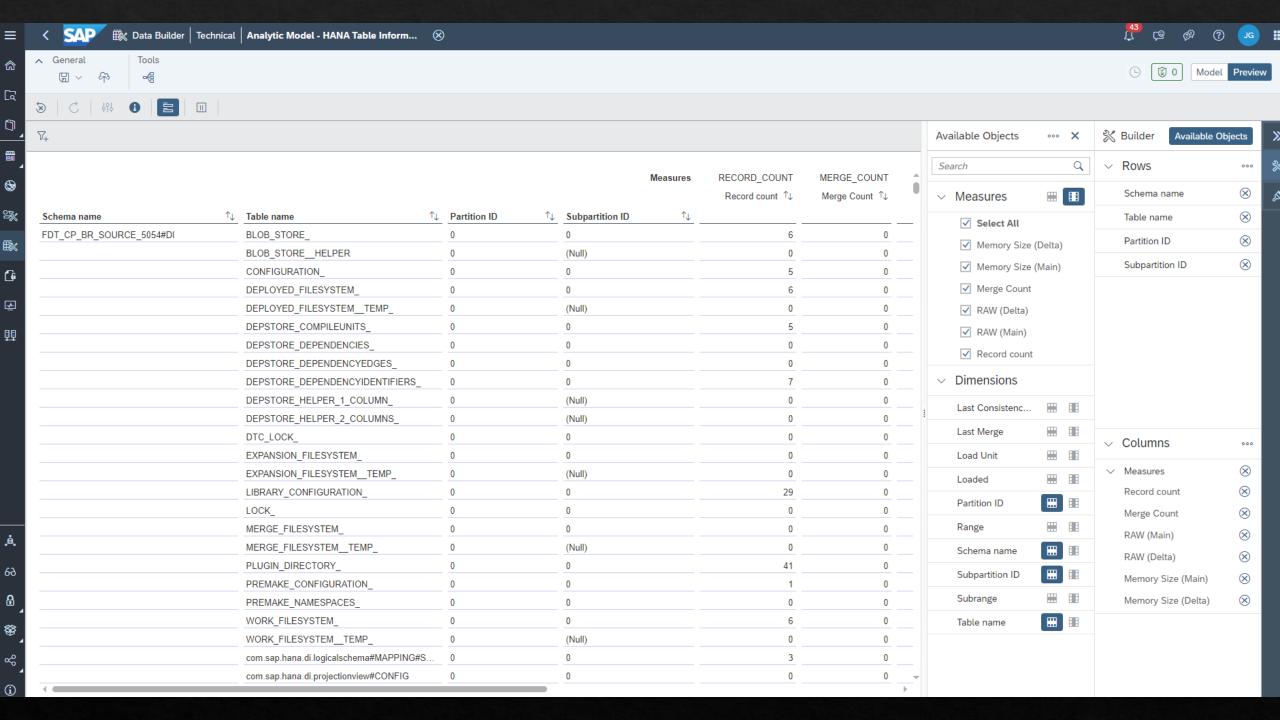


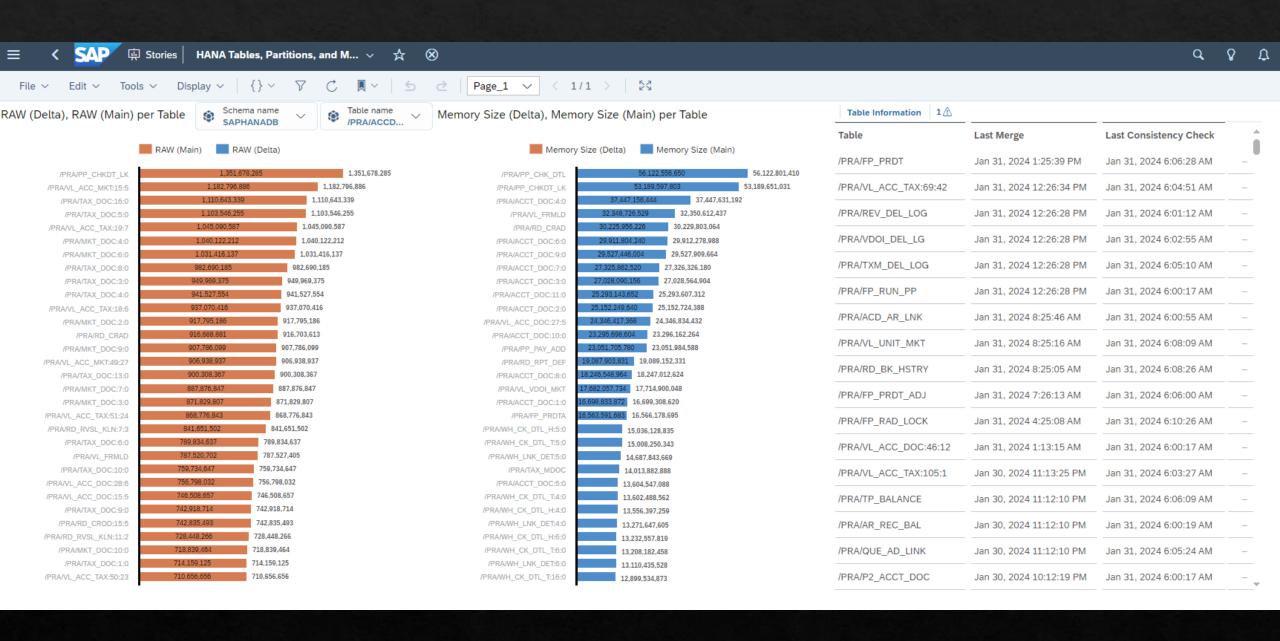












Thanks!

https://open.sap.com/courses/dsp1-1