

Modeling External and SAP HANA Data in SAP Data Warehouse Cloud

Session ID: DA262

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What is this exercise about?

The Business Scenario

MyCompany provides fleet management services for large enterprise customers. They are organizing the procurement of cars from multiple manufacturers for their customers. They would like to understand where there is potential for additional car sales with their existing customer base. Their goal is to achieve a 20% market share.

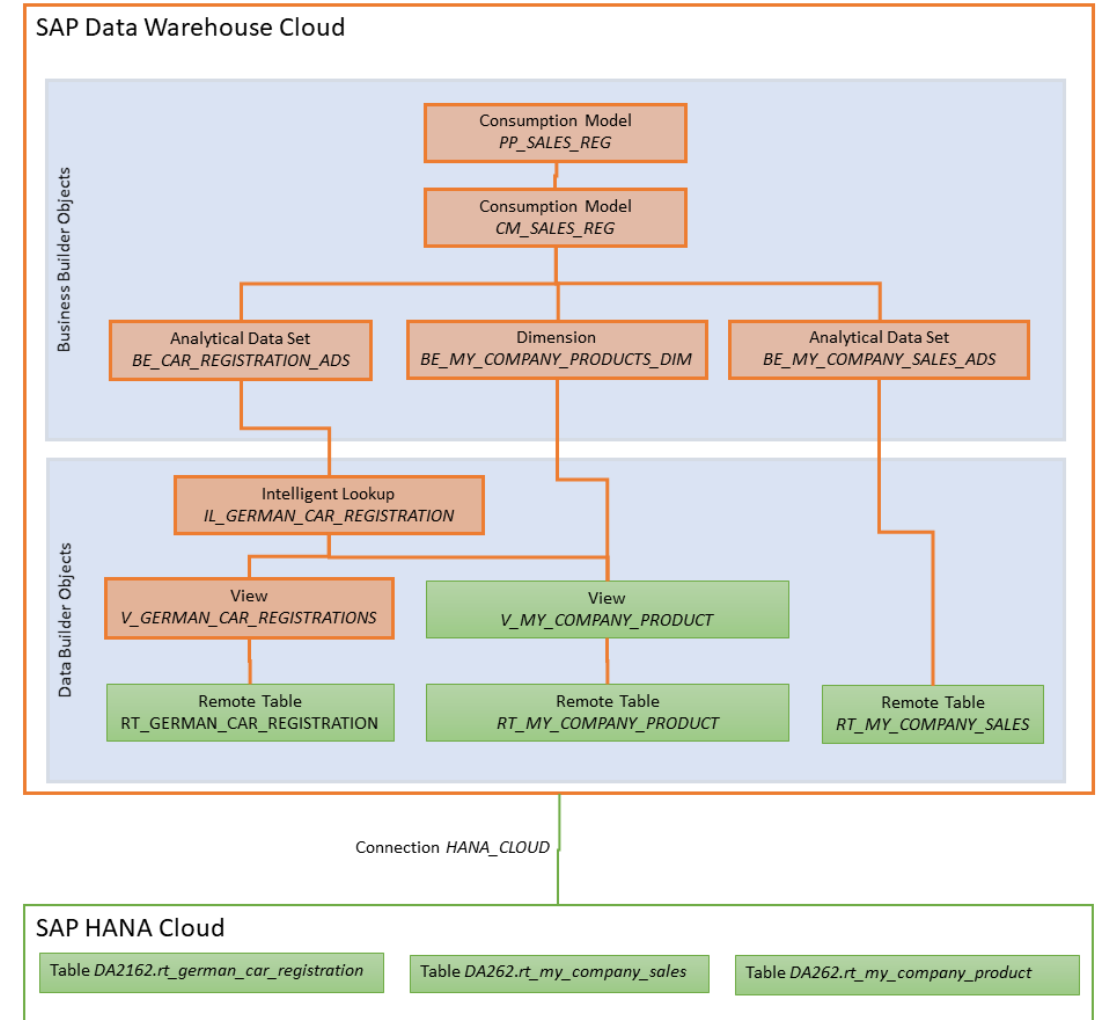
Question to answer: Which brand has a market share lower than 20%?

The exercises start from an empty DWC Guided Experience system and guide you to build the complete end-to-end scenario from the bottom up. The graphic below gives the complete overview on the object model.

Learning focus

- Data Marketplace (Not part of the exercise)
- Intelligent Lookup
- Multi fact model

The Data Model



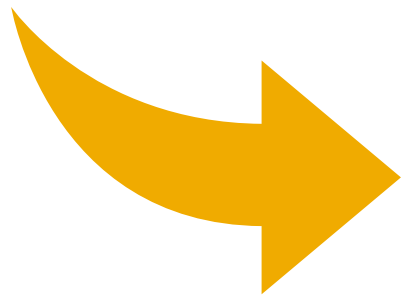
Where to find the script & data files?

The GitHub Repository is located: <https://github.com/SAP-samples/teched2022-DA262>

👉 **Download the ZIP File**

Pre-Requisites

- Google Chrome
- Access to this GitHub repository
- Access to a Guided Experience system of SAP Data Warehouse Cloud tenant (if you don't have one yet, please follow the instructions of [exercise 0](#))
- This [ressource archive](#) will be required in [exercise 1](#)



▼	Folder	TechEd 2022 DA262 3	--
▼	Folder	GermanCarRegistration	--
	File	rt_german_car_registration.csv	14 KB
	File	Connection_HANA.json	29 KB
▼	Folder	CarSalesMyCompany	--
▼	Folder	Sales	--
	File	rt_my_company_sales.csv	5 KB
▼	Folder	Product	--
	File	rt_my_company_product.csv	8 KB

The exercises (0)

In [Exercise 0](#), users lay hands on an empty **DWC Guided Experience** system. This means that they apply for their own space in a centrally-provided SAP Data Warehouse Cloud tenant. Users receive access to a single space that is initially empty. Connections to backend systems of type HANA Cloud, S/4 HANA Cloud and Google Cloud Platform are provided, but only the HANA Cloud system is relevant in the context of the exercise. In the **HANA Cloud** system, a schema *DA262* is prepared in which the three tables relevant to this exercise are provided, namely the tables *rt_german_car_registration*, *rt_my_company_sales* and *rt_my_company_product*.

Exercises

- [Overview on Exercises and Object Model](#)
- [Exercise 0 - Preparations](#)
- [Exercise 1 - Load data from SAP HANA Cloud](#)
 - [Exercise 1.1 - Load JSON](#)
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- [Exercise 2 - Map external car registration data to internal product master data](#)
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 - [Exercise 3.3 - Create Analytical Dataset for Car Registration Data](#)
 - [Exercise 3.4 - Create Multifact Consumption Model that brings together the numbers for car registrations and internal sales](#)
 - [Exercise 3.5 - Add key figures](#)
- [Exercise 4 - Create an SAC Story \(optional\)](#)
 - [Exercise 4.1 - Show Sales Data in SAC](#)
 - [Exercise 4.2 - Show Marketshare in SAC](#)

The exercises (1)

In **Exercise 1**, users import these **HANA Cloud tables** as "**remote tables**" by uploading the respective DWC metadata for them. Also views building on the sales & product tables are provided. Import happens by virtue of a dedicated CSN file (aka: DWC repository metadata file) that contains the relevant metadata for all objects in green in the graphic above. The tables and their data are residing in SAP HANA Cloud and can be accessed in a **federated** manner, but we are taking a data snapshot of them in order to showcase this part of the DWC feature set also.

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The exercises (2)

In **Exercise 2**, users **combine the external dataset** for car registrations with the internal master data on manufacturers. Since the car model & car brand names used externally (like e.g. Volkswagen VW) and internally (Volkswagen) are different, we cannot report the car registration data **along** our existing product master dimension. In order to heal this fact, we are using a dedicated DWC operator, the **Intelligent Lookup** (cp. e.g. also this blog) that bridges this problem by cleverly building up a **match table** that defines which products used in the car registration data set match to which product in the product master data set. Some preparatory work need to happen upfront in a view to make this work..

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The exercises (3)

In **Exercise 3**, the Data Builder entities created in Exercise 2 are brought together in an analytical model that SAC uses for reporting. To this end, the participating objects need to be wrapped into entities of the **Business Layer**. The fact sources for car registrations and internal sales are wrapped in so-called **Business Layer Analytical Datasets**. The internal product master data is wrapped in a Bare wrapped in a Business Layer Dimension. Additionally, an association between the fact sources and the product dimension is created. This will later be leveraged as a "**shared dimension**" between the car registration numbers and the sales numbers in a "**multi-fact model**".

Once these Business Layer entities are defined, users can continue and create a Consumption Model (SAP Help).

Finally, we model the key figures for internal sales, overall car registration and thus market share (as internal sales divided by overall registrations). To finally expose our developments to SAC, we require a perspective - we simply generate one while previewing the data in our model.

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The exercises (4)

Finally in [Exercise 4](#), we leverage the just-created perspective in an **SAP Analytics Cloud** story. We simply create a new story, connect it to the DWC data model (i.e. the perspective) and then create the required charts & tables.

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Your Space GE12345 or SP14658Uxxx

When using a guided experience trial system for this hands-on training, a predefined Space is already there for you named: **GE12345**


The number will be different for everyone!

If you use the provided user, the space has the same name as your user

In case you use your own system, we recommend you use a new empty Space.

GE12345☐

GE12345




 **Healthy**

Deployed on Nov 10, 2022 09:24

Storage:
1.1 MB

Memory:
1.6 MB

SAP Data Warehouse Cloud

 3  3  10

Edit



Related SAP TechEd Sessions

Lectures

- DA110 – The Future of Data Management and Data Warehousing
- DA204 – SAP Data Warehouse Cloud: Road Map and Strategy
- DA205 – SAP BW Bridge for SAP Data Warehouse Cloud: The Journey to the Public Cloud

Breakout Sessions

- DA300 – Data Warehousing Scenario: SAP Data Warehouse Cloud and SAP HANA Cloud
- DA301 – Innovate and Move SAP Business Warehouse to SAP Data Warehouse Cloud

In-person workshop

- DA160 – Explore SAP Data Warehouse Cloud from A to Z
- **DA262 – Modeling External and SAP Software Data in SAP Data Warehouse Cloud**

Public SAP Web sites

- SAP Data Warehouse Cloud community: <https://community.sap.com/topics/data-warehouse-cloud>
- Use the [Developer Tutorials](#) to learn more
- SAP product page: <https://www.sap.com/products/data-warehouse-cloud.html>
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1. [Pearson VUE's Latest "Value of IT Certification" Study Highlights Benefits of IT Certification in Challenging Times.](#) Pearson Education Inc., May 25, 2021.

2. Chuck Cooper, [Why Get IT Certified? The Value of IT Certification: An IT Certification White Paper](#), IT Certification Council, March 2021.

SAP Data Warehouse Cloud. SAP Road Map Explorer

The image displays the SAP Road Map Explorer interface against a starry night sky background. On the left, the SAP logo is positioned above the large white text "Road Map Explorer". Below this, the heading "SAP Road Maps" is prominently displayed. A descriptive paragraph states: "SAP Road Maps support the journey to SAP's future Enterprise. Explore our road maps, webinars, and more." At the bottom left, a search bar contains the placeholder text "Search SAP Road Maps by keywords, topics, products, processes or industries".

To the right, a screenshot of the application shows three panels representing different time periods:

- Q3 2021:12 Road Map Items**:
 - Administration and Service Management**: SOC certification through a SOC 2 audit report.
 - Business Modeling**: Star schema deployment of perspectives.
 - Data Center Availability**: Data center availability in South Korea through Amazon Web Services.
- Q4 2021:13 Road Map Items**:
 - Business Modeling**: Ability to handle text associations in business entities.
 - Business Warehouse Bridge**: SAP BW bridge.
 - Data Center Availability**: Data center availability in the European region on Azure.
- Q1 2022:15 Road Map Items**:
 - Administration and Service Management**: Flexible tenant configuration – self-service provisioning.
 - Business Modeling**: S/HANA content generation: Importing meta data from S4 HANA.
 - Business Warehouse Bridge**: Replication of data sources (ODP).

Each item includes a status icon (star or checkmark) and a link to the full roadmap document.

Check the latest information on the [SAP ROAD MAP EXPLORER](#)

SAP

Road Map Explorer

Products
Processes
Industries
My Road Maps
📧
👤

SAP Data Ware...

150 Road Map Items

Products

Industries

Focus Topics

Q3 2021 - 2023

📄

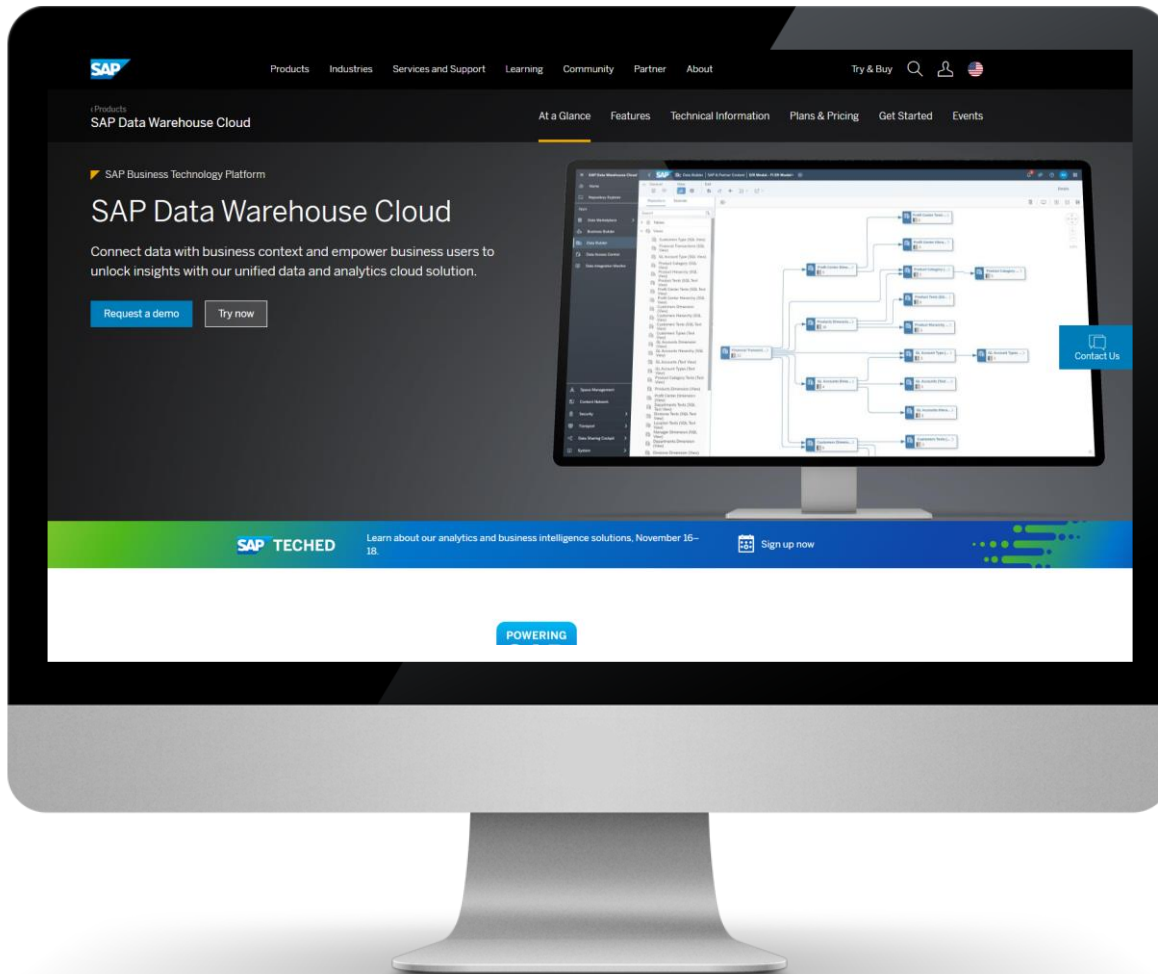
🔍

Save

<div>Q3 2021 12 Road Map Items</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Administration and Service Management</div> <div>SOC certification through a SOC 2 audit report</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Business Modeling</div> <div>Star schema deployment of perspectives</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Center Availability</div> <div>Data center availability in South Korea through Amazon Web...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data-center availability in Canada through AWS</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data-center availability in the U.S. western region on Azure</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Integration</div> <div>Data-flow updates for monitoring, timing, and extractions</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Modeling</div> <div>Data provider – flexible filters</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Remote Source Refresh</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Privacy and Protection</div> <div>Import SAP BW and SAP BW/HANA Analysis Authorizations</div> <div>SAP Data Warehouse Cloud 1.0</div>	<div>Q4 2021 13 Road Map Items</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Business Modeling</div> <div>Ability to handle text associations in business entities</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Business Warehouse Bridge</div> <div>SAP BW bridge</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Center Availability</div> <div>Data center availability in the European region on Azure</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Integration</div> <div>Data flow: connection to [SFTP]-based file shares</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Loading of the Microsoft Excel format in the data flow</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Model transfer functionality support for BW analytic queries</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Remote tables – 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<div>Administration and Service Management</div> <div>Central Notification Center</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Unified home: focus on priority action items and react to need-to-...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Business Modeling</div> <div>Autorecognition engine – detect data and metadata that can be u...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Empowering users with self-service modeling as well as low-code and...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Multilingual content support</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Semantic business modeling – deliver data that addresses multipl...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Cataloging</div> <div>Cross-application lineage for reporting, modeling, databases, an...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>External API for one data catalog (ODC)</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Harvesting metadata from additional sources: synchronous replication...</div> <div>SAP Data Warehouse Cloud 1.0</div> <div>Data Integration</div>
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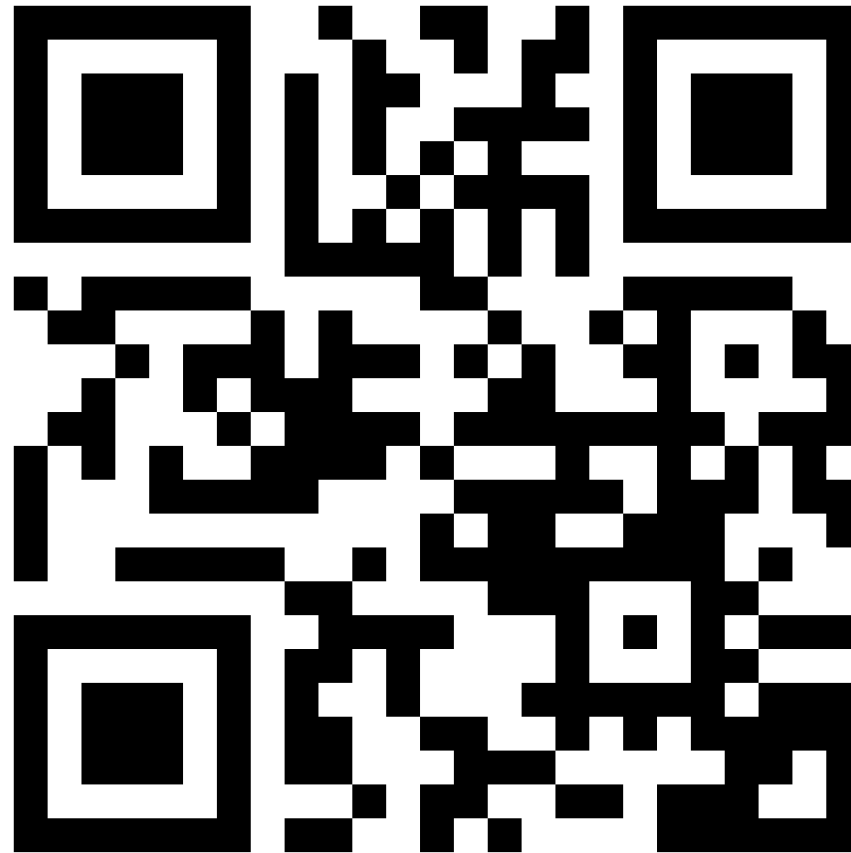
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