GLOSSARY OF SAP NATIVE HANA

A Quick Reference Guide to SAP Terminologies

Concept/Term	Definition
SAP HANA	An in-memory database platform by SAP. Designed for high-speed transactions and analytics in real time.
Native HANA	Refers to applications built directly on SAP HANA. Uses HANA's in-memory features for custom development.
HANA Studio	Eclipse-based IDE used to model, develop, and manage HANA content. Offers tools for SQL, views, and admin.
Calculation View	A logical data model built on top of other views or tables. Used for complex business logic and reporting.
Attribute View	Used to model master data in HANA. Represents descriptive information like product names or customers.

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Concept/Term	Definition
Analytic View	Combines transactional and master data for reporting. Used in OLAP-style analytical scenarios.
SQL Script	SAP HANA's extension of SQL for advanced logic. Supports loops, variables, and control structures.
Column Store	Stores data in columns for fast read and compression. Default storage method in SAP HANA.
Row Store	Stores data in traditional row format. Used for small lookup or frequently updated tables.
XS Engine	Lightweight application server in HANA for web applications. Enables browser-based UIs and REST APIs.

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Concept/Term	Definition
HDB Table	A database table created within SAP HANA. Managed via design-time artifacts or SQL.
Persistent Layer	Manages saving of in-memory data to disk. Ensures durability through savepoints and logs.
Delta Merge	Consolidates changes from delta storage to main storage. Optimizes performance and memory usage.
In-Memory Computing	Processes data in RAM rather than disk. Enables real-time analytics and transactions.
Data Modeling	The process of defining logical and physical data models. In HANA, done using views and tables.

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Concept/Term	Definition
Catalog	Central structure in HANA containing schemas, tables, views, and procedures. Organizes all database objects.
Schema	Logical container for grouping database objects. Segregates data models across users or apps.
Calculation Engine	Executes HANA views and complex logic. Optimized for parallel execution and in-memory processing.
Analytical Privileges	Security mechanism for row-level data control in HANA. Grants filtered access to sensitive data.
SQL Console	Interface in HANA Studio or Web IDE to run SQL commands. Supports DDL, DML, and scripting.

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Concept/Term	Definition
Stored Procedure	A precompiled set of SQL instructions stored in the database. Enhances reusability and performance.
Table Function	Returns a tabular result set from custom SQL logic. Used in Calculation Views and scripts.
Data Preview	A tool in HANA Studio to view output of tables or views. Supports filtering and sorting for quick checks.
Information View	Virtual data models built in HANA. Includes Attribute, Analytic, and Calculation Views.
SAP Web IDE for HANA	Cloud-based development environment for SAP HANA. Supports modeling, scripting, and version control.

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Concept/Term	Definition
HANA Deployment Infrastructure (HDI)	Framework for managing design-time artifacts. Uses containers and versioning.
HDI Container	Isolated space for storing HANA artifacts in Web IDE. Enables modular and transportable design.
Synonym	Maps external objects for use in HDI containers. Helps reference non-local tables or views.
Virtual Table	Accesses remote data sources using Smart Data Access. Allows federated queries without replication.
Smart Data Access (SDA)	Connects HANA to external databases. Enables read queries on remote tables as if local.

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SAP Native HANA
Key Concepts

Concept/Term	Definition
Smart Data Integration (SDI)	Supports data replication and transformation. Uses agents and adapters to load data into HANA.
HANA Cockpit	Web-based admin tool for SAP HANA. Monitors system health, performance, and users.
PlanViz	Visualizes query execution plans in HANA. Helps troubleshoot and optimize performance issues.
CE Functions	Calculation Engine functions used in SQL Script. Preferred over plain SQL for optimized performance.
Text Join	Joins master data with language-dependent descriptions. Ensures multilingual support in views.

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SAP Native HANA
Key Concepts

Concept/Term	Definition
Star Join	Enables multidimensional modeling in Calculation Views. Combines fact tables with multiple dimensions.
Cardinality	Describes relationship between tables in joins. Ensures correct aggregation and data modeling.
Input Parameters	Accepts values at runtime for filtering or logic. Used in Calculation Views for dynamic results.
Variables	Used for filtering data in views. Unlike parameters, cannot control logic or expressions.
Hierarchies	Structures used to model levels of data (e.g., region → country → city). Supported in views.

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Concept/Term	Definition
Staging Table	Temporarily holds data before processing. Often used in ETL and data migration scenarios.
Change Capture	Identifies and extracts modified records. Essential for incremental loads into HANA.
Partitioning	Splits large tables into parts to improve performance. Supports range and hash partitioning.
Compression	HANA compresses data to save memory and boost speed. Uses dictionary, run-length, and cluster methods.
Delta Storage	Temporary area for recent inserts and updates. Later merged into main storage during delta merge.

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SAP Native HANA
Key Concepts

Concept/Term	Definition
Calculation Scenario	The internal execution model of a Calculation View. Defines how data flows through nodes.
Table Type	Defines structure for tables passed in procedures or functions. Reusable in multiple artifacts.
System View	Built-in views that expose HANA metadata. Includes monitoring, performance, and configuration data.
Index Server	Core component of SAP HANA architecture. Manages query processing and data storage.
XS Advanced	Enhanced runtime platform for modern apps on HANA. Offers microservices, Git, and build tools.

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