

HASH

Ontology

Semantic Layer for Enterprise Analytics on SAP

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-Confidential-

Contents

I. Customers	4
II. Suppliers	5
III. Products	6
IV. Inventory (All Items).....	7
V. Inventory (Finished Products).....	9
VI. Material Movements	11
VII. Production Orders	14
VIII. Sales.....	16
IX. Sales Orders	19
X. Material & Service Procurement	21
XI. Routes (Deliveries)	23
XII. Equipment	25
XIII. Maintenance Orders	26
XIV. Projects	28
XV. Finance & Accounting	30
XVI. Controlling Costs	32

Introduction

Enterprise SAP implementations accumulate over 100,000 tables and more than 15 million columns. Most of these tables are redundant, historical, or configuration specific. However, every analytical query must navigate this complexity.

The result: slow reports, inconsistent data, and a technical barrier that prevents the adoption of artificial intelligence or real-time analytics.

100,000+ Native SAP Tables	16 Consolidated Tables	66 Max Columns per Table
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This document presents the Hash Ontology: a semantic restructuring of the SAP database that consolidates operational business information into a reduced set of clean, contextualized tables ready for advanced analytics. The most extensive table contains approximately 66 columns, compared to the 250+ columns typical of native tables.

This architecture enables reduced infrastructure costs, unlocks analyses that are currently infeasible due to complexity, and establishes an AI-ready database that supports business decisions with accurate, real-time information.

The tables documented below cover the core operational domains of any organization using SAP. Additional tables can be incorporated based on specific client requirements.

I. Customers

This table contains the customer information stored in the SAP system. It includes customer identification, geographic location, account groups, industrial classification, and entity type. This data is essential for customer relationship management, sales analysis, and market segmentation.

Column	Description
creation_date	Date the customer record was created.
customer_code	Unique identifier assigned to each customer.
customer_name	Name of the customer or business entity.
customer_city	City where the customer is located.
customer_address	Physical address of the customer (street and number).
customer_country_code	ISO or internal code representing the customer's country.
customer_country_name	Full name of the customer's country.
customer_region_code	Internal or external code representing the region.
customer_region_name	Full name of the region where the customer is located.
customer_account_group_code	Code that classifies the customer's account group.
customer_account_group_description	Description of the customer's account group.
customer_class_code	Code representing the customer classification.
customer_class_description	Description of the customer class (e.g., End Consumer).
industry_key_code	Code representing the customer's industrial sector.
industry_key_description	Description of the industrial sector (e.g., Construction, General Public).
entity_type_description	Classification of the customer's entity type (e.g., Company, Individual).

II. Suppliers

This table contains master information about the suppliers that provide goods and services to the organization. It includes identifiers, location details, entity classification, and vendor account group. This data is essential for procurement management, regulatory compliance tracking, and supplier relationship monitoring.

Column	Description
creation_date	Date the supplier was created in the system.
supplier_code	Unique identifier assigned to the supplier.
supplier_name	Name of the supplier.
supplier_country_code	Code representing the supplier's country.
supplier_country_name	Full name of the supplier's country.
supplier_city_code	Code representing the supplier's city.
supplier_city_description	Description of the city where the supplier is located.
supplier_region_code	Code representing the supplier's region.
supplier_region_description	Description of the supplier's region.
entity_type_description	Classification of the supplier's entity type (e.g., individual, company).
vendor_account_group_code	Code that classifies the vendor account group.
vendor_account_group_description	Description of the vendor account group (e.g., Local Creditors).

III. Products

This table contains detailed product information, including item characteristics, shelf life, weight, volume, industrial classification, and product hierarchy. It is fundamental for product tracking and operational planning across the supply chain.

Column	Description
creation_date	Date the product was created in the system.
last_update	Date of the most recent update to the product data.
item_code	Unique code assigned to the product.
item_description	Description of the product.
shelf_life	Expected shelf life of the product.
material_group_code	Code representing the product's material category.
material_group_description	Description of the product's material category.
material_type_code	Code indicating the type of material.
material_type_description	Description of the material type (e.g., Steel Star Materials).
volume	Volume of the product.
unit_of_volume_code	Code for the unit of volume measurement.
unit_of_volume_description	Description of the volume unit of measure.
unit_of_measure_code	Code for the base unit of measure for the product.
unit_of_measure_description	Description of the product's unit of measure.
weight	Weight of the product.
weight_unit_code	Code for the weight unit of measure.
weight_unit_description	Description of the weight unit.
product_hierarchy_code	Code indicating the product's position in the hierarchy.
product_hierarchy_description	Description of the product hierarchy.
division_code	Code representing the business division.
division_description	Description of the business division.
industry_sector_code	Code representing the industrial sector.
industry_sector_description	Description of the industrial sector.
position_group_type_code	Code for the position group type.
position_group_type_description	Description of the position group type.

IV. Inventory (All Items)

This table contains inventory information for all products across different plants and storage locations. It includes general product data, inventory levels, valuation methods, costs, and classification codes. The inventory table is key for supply chain management, inventory audits, and accounting valuation reports.

Column	Description
date	Date the inventory snapshot was taken.
item_code	Unique identifier of the product in inventory.
item_description	Description of the product.
plant_or_warehouse_country_code	ISO code representing the plant/warehouse country.
plant_or_warehouse_country_name	Full name of the country.
plant_or_warehouse_code	Code of the plant or warehouse where the product is located.
plant_or_warehouse_description	Description of the corresponding plant or warehouse.
storage_location_code	Code for the specific location within the plant or warehouse.
storage_location_description	Description of the storage location.
stock_per_storage_location	Inventory quantity at the specified location.
unit_of_measure_code	Code for the inventory quantity unit of measure.
unit_of_measure_description	Description of the unit of measure.
procurement_type	Code for the product's procurement type.
procurement_type_description	Description of the procurement type (e.g., In-house Production, External Procurement).
material_group_code	Code representing the product's material group.
material_group_description	Description of the material group.
material_type_code	Code indicating the type of material.
material_type_description	Description of the material type.
shelf_life	Shelf life of the product.
standard_cost_per_unit	Standard cost assigned per product unit.
moving_average_cost_per_unit	Cost per unit calculated using the moving average.
current_cost_per_unit	Current cost of the product per unit.
price_control_indicator_code	Code for the price control type.
price_control_indicator_description	Description of the price control indicator.
valuation_class_code	Code for the accounting valuation class.
valuation_class_description	Description of the accounting valuation class.
total_value_of_stock_current_cost	Total inventory value calculated at current cost.

currency_code	Code of the currency used in valuation.
currency_description	Description of the currency.
company_code	Code identifying the company.
company_description	Description of the company.

V. Inventory (Finished Products)

This table contains inventory information specifically for finished products across different plants and storage locations. It mirrors the structure of the all-items inventory but focuses on completed products ready for sale or distribution. It is essential for sales fulfillment, warehouse management, and finished goods valuation.

Column	Description
date	Date the inventory snapshot was taken.
item_code	Unique identifier of the finished product in inventory.
item_description	Description of the finished product.
plant_or_warehouse_country_code	ISO code representing the plant/warehouse country.
plant_or_warehouse_country_name	Full name of the country.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
storage_location_code	Code for the specific storage location.
storage_location_description	Description of the storage location.
stock_per_storage_location	Inventory quantity at the specified location.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
procurement_type	Code for the procurement type.
procurement_type_description	Description of the procurement type.
material_group_code	Code representing the material group.
material_group_description	Description of the material group.
material_type_code	Code indicating the type of material.
material_type_description	Description of the material type.
shelf_life	Shelf life of the product.
standard_cost_per_unit	Standard cost per unit.
moving_average_cost_per_unit	Moving average cost per unit.
current_cost_per_unit	Current cost per unit.
price_control_indicator_code	Code for the price control indicator.
price_control_indicator_description	Description of the price control.
valuation_class_code	Code for the valuation class.
valuation_class_description	Description of the valuation class.
total_value_of_stock_current_cost	Total inventory value at current cost.
currency_code	Currency code.

currency_description	Description of the currency.
company_code	Company code.
company_description	Description of the company.

VI. Material Movements

This table records detailed material movements within the SAP system. It includes transactional and financial information such as movement dates, quantities, locations, profit centers, and debit/credit accounting classifications. It is fundamental for tracking inventory flows, material usage audits, and financial reconciliation.

Column	Description
material_document_code	Unique identifier of the material movement document.
material_document_item_code	Line item code within the material document.
purchase_order_code	Related purchase order code (if applicable).
purchase_order_item_code	Line item within the purchase order.
financial_document_code	Related financial document code.
financial_document_item_code	Line item within the financial document.
material_document_year	Year of the material document.
system_entry_date	Date the entry was recorded in the system.
document_date	Date of the source document.
posting_date	Date the movement was posted.
transaction_event_type_code	Code for the transaction event type.
document_type_code	Code representing the document type.
document_type_description	Description of the document type.
reevaluation_document_type_code	Code for the reevaluation document type.
reevaluation_document_type_description	Description of the reevaluation type.
movement_indicator_code	Code indicating the nature of the movement.
movement_indicator_description	Description of the movement indicator.
special_stock_indicator_code	Code for the special stock indicator.
special_stock_indicator_description	Description of the special stock indicator.
receipt_indicator_code	Code indicating the receipt status.
consumption_indicator_code	Code for the consumption indicator.
consumption_indicator_description	Description of the consumption indicator.
movement_type_code	Code for the movement type.
movement_type_description	Description of the movement type.
reason_of_movement_code	Code for the reason of the movement.
reason_of_movement_description	Description of the reason for the movement.
transaction_code	Code identifying the transaction type.
transaction_description	Description of the transaction.

profit_center_code	Code representing the profit center.
profit_center_description	Description of the profit center.
company_code	Code identifying the company.
company_description	Description of the company.
chart_of_accounts_code	Code for the chart of accounts.
chart_of_accounts_description	Description of the chart of accounts.
gl_account_code	General ledger account code.
gl_account_description	Description of the GL account.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
cost_center_code	Code for the cost center.
cost_center_description	Description of the cost center.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
storage_location_code	Code for the storage location.
storage_location_description	Description of the storage location.
customer_code	Customer code (for outbound movements).
customer_name	Customer name.
supplier_code	Supplier code (for inbound movements).
supplier_name	Supplier name.
item_code	Code of the product that was moved.
item_description	Description of the product.
debit_credit_indicator_code	Code indicating debit or credit.
debit_credit_indicator_description	Description of the debit/credit indicator.
quantity	Quantity moved in base units.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
quantity_in_unit_of_entry	Quantity in unit of entry.
unit_of_entry_measure_code	Code for the entry unit of measure.
unit_of_entry_measure_description	Description of the entry unit.
amount_in_local_currency	Amount in local currency.
currency_code	Currency code.
currency_description	Description of the currency.
price_control_indicator_code	Code for the price control indicator.
price_control_indicator_description	Description of the price control.

total_stock_before_posting	Stock quantity before posting.
total_value_of_stock_before_posting	Stock value before posting.

VII. Production Orders

This table records production activity within the facilities. It includes key metrics such as production dates, produced versus planned quantities, and efficiency levels. It also contains order tracking information and operational location details. This information is useful for monitoring performance, evaluating planning accuracy, and conducting operational analysis.

Column	Description
order_code	Unique code assigned to the production order.
order_item_code	Line item code within the order.
order_type_code	Code indicating the order type.
order_type_description	Description of the order type.
order_category_code	Code for the order category.
order_category_description	Description of the order category.
creation_date	Date the production order was created.
production_start_date	Date production started.
production_end_date	Date production ended.
item_code	Code of the item being produced.
item_description	Description of the item being produced.
material_group_code	Code representing the material group.
material_group_description	Description of the material group.
company_code	Company code.
company_description	Description of the company.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
object_code	Object code for the order.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.
scope_code	Code for the production scope.
scope_description	Description of the scope (e.g., Manufacturing).
plant_code	Code of the production plant.
plant_description	Description of the plant.
plant_city	City where the plant is located.
plant_country_code	Country code of the plant.
plant_country_name	Country name of the plant.
storage_location_code	Code for the storage location.

storage_location_description	Description of the storage location.
produced_quantity	Quantity of goods produced.
planned_quantity	Quantity of goods planned for production.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
allowed_overproduction_pct	Allowed overproduction percentage.

VIII. Sales

This table records comprehensive sales transaction data, including product details, pricing, customer information, quantities, and sales values. It serves as the central reference for revenue tracking, performance analysis, financial reporting, and profitability analysis.

Column	Description
billing_document_code	Code identifying the billing document.
billing_document_item_code	Line item code within the billing document.
creation_date	Date the sales record was created.
billing_date	Billing date.
company_code	Company code.
company_description	Description of the company.
item_code	Code of the item sold.
item_description	Description of the item sold.
material_group_code	Code representing the material group.
material_group_description	Description of the material group.
cost_center_code	Code for the cost center.
cost_center_description	Description of the cost center.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
plant_or_warehouse_country_code	Country code of the plant.
plant_or_warehouse_country_name	Country name of the plant.
storage_location_code	Code for the storage location.
storage_location_description	Description of the storage location.
customer_code	Unique identifier for the customer.
customer_name	Customer name.
customer_city	City where the customer is located.
customer_country_code	Country code of the customer.
customer_country_name	Country name of the customer.
customer_group_code	Code for the customer group.
customer_group_description	Description of the customer group.
customer_account_group_code	Code for the customer account group.
customer_account_group_description	Description of the account group.
price_indicator_code	Code indicating how the price was set.
price_indicator_description	Description of the price indicator.

transaction_code	Code identifying the transaction type.
transaction_description	Description of the transaction.
position_code	Code representing the sales item position.
position_description	Description of the position code.
sales_distribution_channel_code	Code for the distribution channel.
sales_distribution_channel_description	Description of the distribution channel.
billing_type_code	Code for the billing type.
billing_type_description	Description of the billing type.
delivery_document_code	Code of the related delivery document.
delivery_document_item_code	Line item of the delivery document.
delivery_document_type_code	Code for the delivery document type.
delivery_document_type_description	Description of the delivery document type.
sales_order_document_code	Code of the related sales order document.
sales_order_document_item_code	Line item of the sales order.
statistics_printing_indicator_code	Statistics printing indicator.
profitability_segment_code	Code for the profitability segment.
volume	Volume of the item sold.
unit_of_volume_code	Code for the unit of volume measurement.
unit_of_volume_description	Description of the volume unit.
quantity	Quantity of the item sold.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
quantity_per_units	Quantity expressed in base units.
unit_cost	Cost per unit of the item.
unit_price	Selling price per unit.
total_cost	Total cost for the quantity sold.
gross_sales	Gross sales value.
net_sales	Net sales value.
discount_amount	Discount amount applied.
tax_amount	Tax amount.
net_sales_with_tax	Net sales including tax.
currency_code	Currency code used in the transaction.
currency_description	Description of the currency.
route_code	Code for the delivery route.
route_description	Description of the route.

is_bonus	Indicator if the item is a bonus.
dollar_conversion_rate	Exchange rate to USD.

IX. Sales Orders

This table contains detailed sales order information including order creation, delivery scheduling, customer data, and pricing. It tracks the complete lifecycle of customer orders from creation to delivery coordination.

Column	Description
creation_date	Date the sales order was created.
requested_delivery_date	Delivery date requested by the customer.
material_available_date	Date when materials are available.
sales_order_document_code	Unique identifier for the sales order.
sales_order_document_item_code	Line item within the sales order.
transaction_code	Code identifying the transaction type.
transaction_description	Description of the transaction (e.g., Return, Open Order).
item_code	Code of the ordered item.
item_description	Description of the ordered item.
customer_code	Unique identifier for the customer.
customer_name	Customer name.
customer_country_code	Country code of the customer.
customer_country_name	Country name of the customer.
position_code	Code representing the order position.
position_description	Description of the position.
material_group_code	Code for the material group.
material_group_description	Description of the material group.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
storage_location_code	Code for the storage location.
storage_location_description	Description of the storage location.
sales_distribution_channel_code	Code for the distribution channel.
sales_distribution_channel_description	Description of the distribution channel.
loading_point_code	Code for the loading point.
loading_point_description	Description of the loading point.
route_code	Code for the delivery route.
route_description	Description of the route.
ordered_quantity_per_units	Ordered quantity in base units.
unit_of_measure_code	Code for the unit of measure.

unit_of_measure_description	Description of the unit of measure.
unit_price	Price per unit of the item.
net_sales	Net sales value.
currency_code	Currency code.
currency_description	Description of the currency.
partial_delivery_code	Code for partial delivery permission.
partial_delivery_description	Description of partial delivery rules.
order_type_code	Code for the order type.
order_type_description	Description of the order type.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.
product_group_code	Code for the product group.
product_group_description	Description of the product group.

X. Material & Service Procurement

This table records the acquisition of raw materials and services, detailing purchase orders, delivery and receipt statuses, supplier information, pricing, and order fulfillment metrics. It enables procurement analysis, supplier performance evaluation, and cost tracking within procurement operations.

Column	Description
purchase_order_code	Unique identifier for the purchase order.
purchase_order_item_code	Line item within the purchase order.
material_document_number	Document number related to material receipt.
material_document_item_code	Line item in the material document.
account_assignment_code	Code for account assignment.
fiscal_year	Fiscal year of the transaction.
system_entry_date	Date the system entry was made.
document_date	Date of the source document.
purchase_requisition_date	Date of the purchase requisition.
purchase_order_creation_date	Date the purchase order was created.
posting_date	Date the transaction was posted.
item_code	Code of the item being purchased.
item_description	Description of the purchased item.
material_group_code	Code for the material group.
material_group_description	Description of the material group.
material_type_code	Code for the material type.
material_type_description	Description of the material type.
plant_or_warehouse_code	Code of the receiving plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
storage_location_code	Code for the storage location.
storage_location_description	Description of the storage location.
purchasing_document_category_code	Code for the purchasing document category.
purchasing_document_category_description	Description of the document category.
purchase_order_type_code	Code for the purchase order type.
purchase_order_type_description	Description of the order type.
purchase_order_history_category_code	Code for the order history category.
purchase_order_history_category_description	Description of the history category.
payment_terms_code	Code for payment terms.

payment_terms_description	Description of the payment terms.
supplier_code	Supplier identifier.
supplier_name	Supplier name.
company_code	Company code.
company_description	Description of the company.
purchasing_organization_code	Code for the purchasing organization.
purchasing_organization_description	Description of the purchasing organization.
purchasing_group_code	Code for the purchasing group.
purchasing_group_description	Description of the purchasing group.
shipping_conditions_code	Code for shipping conditions.
shipping_conditions_description	Description of the shipping conditions.
release_group_code	Code for the release group.
release_group_description	Description of the release group.
release_strategy_code	Code for the release strategy.
release_strategy_description	Description of the release strategy.
transaction_type_code	Code for the transaction type.
transaction_type_description	Description of the transaction type.
delivery_complete_indicator	Indicates if the delivery is complete.
received_quantity	Quantity of goods received.
ordered_quantity	Quantity of goods ordered.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
unit_price	Price per unit of the item.
net_document_currency_cost	Net cost in document currency.
gross_document_currency_cost	Gross cost in document currency.
currency_code	Currency code.
actual_local_currency_cost	Actual cost in local currency.
exchange_rate	Applied exchange rate.
net_local_currency_estimated	Estimated net cost in local currency.
gross_local_currency_estimated	Estimated gross cost in local currency.

XI. Routes (Deliveries)

This table records detailed information about all dispatch, delivery, and logistics routes. It includes sales and delivery dates, product and customer data, route identification, and shipped quantities. This information is key for supply chain tracking, order fulfillment analysis, and transportation optimization.

Column	Description
delivery_document_code	Unique identifier for the delivery document.
delivery_document_item_code	Line item within the delivery document.
creation_date	Date the delivery was created.
planned_loading_date	Planned loading date.
planned_transportation_date	Planned transportation date.
planned_delivery_date	Planned delivery date.
actual_delivery_date	Actual delivery date.
sales_order_document_code	Code of the related sales order document.
sales_order_document_item_code	Line item of the sales order.
item_code	Code of the delivered item.
item_description	Description of the delivered item.
material_group_code	Code for the material group.
material_group_description	Description of the material group.
material_type_code	Code for the material type.
material_type_description	Description of the material type.
plant_or_warehouse_code	Code of the origin plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
storage_location_code	Code for the storage location.
storage_location_description	Description of the storage location.
delivered_quantity	Quantity delivered.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
volume	Volume of the delivered goods.
unit_of_volume_code	Code for the volume unit.
base_delivered_quantity	Quantity in base unit.
base_unit_of_measure_code	Code for the base unit of measure.
position_code	Code for the delivery position.
position_description	Description of the position.

weight	Weight of the delivered goods.
weight_unit_code	Code for the weight unit.
loading_group_code	Code for the loading group.
loading_group_description	Description of the loading group.
transportation_group_code	Code for the transportation group.
transportation_group_description	Description of the transportation group.
delivery_type_code	Code for the delivery type.
delivery_type_description	Description of the delivery type.
shipping_point_code	Code for the shipping point.
shipping_point_description	Description of the shipping point.
cost_center_code	Code for the cost center.
cost_center_description	Description of the cost center.
priority_code	Delivery priority code.
priority_description	Description of the priority.
shipping_condition_code	Code for shipping conditions.
shipping_condition_description	Description of the shipping conditions.
route_code	Code for the delivery route.
route_description	Description of the route.
customer_code	Customer identifier.
customer_name	Customer name.
customer_city	Customer city.
customer_country_code	Country code of the customer.
customer_country_name	Country name of the customer.
transaction_code	Code for the transaction type.
transaction_description	Description of the transaction.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.

XII. Equipment

This table contains master data about the equipment used in operations, including machinery, vehicles, and other fixed or mobile assets. It tracks equipment identification, manufacturer details, maintenance assignments, and acquisition information. It is essential for asset management and maintenance planning.

Column	Description
creation_date	Date the equipment record was created.
last_change_date	Date of the last change to the record.
valid_to_date	Date until which the equipment record is valid.
equipment_code	Unique identifier for the equipment.
equipment_description	Description of the equipment.
serial_number	Serial number of the equipment.
equipment_type_code	Code for the equipment type.
equipment_type_description	Description of the equipment type.
equipment_measurements	Physical measurements of the equipment.
manufacturer_description	Name or description of the manufacturer.
manufacturer_country_code	Country code of the manufacturer.
manufacturer_type_description	Type/category of the manufacturer.
object_code	Object code for the equipment.
internal_equipment_status_code	Code for the internal equipment status.
internal_equipment_status_description	Description of the equipment status.
maintenance_plant_code	Code of the maintenance plant.
maintenance_plant_description	Description of the maintenance plant.
maintenance_plan_group_code	Code for the maintenance plan group.
maintenance_plan_group_description	Description of the maintenance plan group.
catalog_profile_code	Code for the catalog profile.
catalog_profile_description	Description of the catalog profile.
weight	Weight of the equipment.
weight_unit_code	Code for the weight unit.
acquisition_value	Acquisition value of the equipment.
acquisition_currency_code	Currency code for the acquisition value.

XIII. Maintenance Orders

This table records maintenance activities and work orders for equipment and facilities. It includes scheduling information, priority levels, work center assignments, and order categorization. It is essential for maintenance planning, resource allocation, and asset reliability management.

Column	Description
creation_date	Date the maintenance order was created.
scheduled_order_start_date	Scheduled start date for the order.
scheduled_order_end_date	Scheduled end date for the order.
order_code	Unique identifier for the maintenance order.
order_description	Description of the maintenance work.
priority_type_code	Code for the priority type.
priority_type_description	Description of the priority type.
priority_code	Code for the priority level.
priority_description	Description of the priority (e.g., EMERGENCY, HIGH).
order_type_code	Code for the order type.
order_type_description	Description of the order type.
order_category_code	Code for the order category.
order_category_description	Description of the order category.
company_code	Company code.
company_description	Description of the company.
business_area_code	Code for the business area.
business_area_description	Description of the business area.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
plant_or_warehouse_city	City of the plant or warehouse.
plant_or_warehouse_country_code	Country code of the plant.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
object_code	Object code for the order.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.
scope_code	Code for the work scope.
scope_description	Description of the scope.
resources_object_type_code	Code for the resource object type.

maintenance_work_center_code	Code for the maintenance work center.
maintenance_work_center_description	Description of the work center.
task_list_type_code	Code for the task list type.
task_list_type_description	Description of the task list type.
task_list_application_code	Code for the task list application.
task_list_application_description	Description of the task list application.
planned_downtime_hours	Planned downtime in hours.

XIV. Projects

This table contains comprehensive project management data including project definitions, work breakdown structures, planning parameters, and budget profiles. It supports project tracking, resource planning, and financial control across the organization.

Column	Description
project_code	Unique identifier for the project.
project_description	Description of the project.
project_step_code	Code for the project step or phase.
project_step_description	Description of the project step.
project_step_position_code	Position code within the project structure.
object_code	Object code for the project element.
creation_date	Date the project was created.
planned_start_date	Planned start date for the project.
planned_end_date	Planned end date for the project.
person_responsible_code	Code for the responsible person.
person_responsible_description	Name of the responsible person.
applicant_code	Code for the applicant.
applicant_description	Description of the applicant.
company_code	Company code.
company_description	Description of the company.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.
project_currency_code	Currency code for the project.
plant_or_warehouse_code	Code of the associated plant.
plant_or_warehouse_description	Description of the plant.
project_calendar_country_code	Country code for the project calendar.
network_assignment_level_code	Code for the network assignment level.
network_assignment_level_description	Description of the network assignment.
basic_date_planning_code	Code for basic date planning.
forecast_date_planning_code	Code for forecast date planning.
time_unit_of_measure_code	Code for the time unit of measure.
time_unit_of_measure_description	Description of the time unit.

network_application_method_code	Code for the network application method.
network_profile_code	Code for the network profile.
network_profile_description	Description of the network profile.
project_profile_code	Code for the project profile.
project_profile_description	Description of the project profile.
budget_profile_code	Code for the budget profile.
budget_profile_description	Description of the budget profile.
planning_profile_code	Code for the planning profile.
planning_profile_description	Description of the planning profile.
status_code	Current project status code.
project_type_scope_code	Code for the project type scope.
project_type_scope_description	Description of the project type scope.
work_breakdown_structure_scope_code	Code for the WBS scope.
work_breakdown_structure_scope_description	Description of the WBS scope.
valuation_indicator_code	Code for the valuation indicator.
valuation_indicator_description	Description of the valuation indicator.
simulation_profile_code	Code for the simulation profile.
active_date_calculation_code	Code for active date calculation.
active_date_calculation_description	Description of the date calculation.
authorization_type_code	Code for the authorization type.
authorization_type_description	Description of the authorization type.
project_type_code	Code for the project type.
project_type_description	Description of the project type.

XV. Finance & Accounting

This table consolidates accounting and financial information derived from SAP posting documents. It includes data on financial documents, taxes, debit/credit indicators, general ledger accounts, profit centers, and cost elements. It is fundamental for accounting analysis, financial reconciliations, tax reporting, and audits.

Column	Description
system_entry_date	Date the entry was recorded in the system.
document_date	Date of the source document.
posting_date	Posting date of the financial document.
financial_document_code	Unique code identifying the financial document.
financial_document_item_code	Code identifying the financial document line item.
source_document_reference_code	Reference code of the associated source document.
fiscal_year	Fiscal year of the record.
company_code	Code of the company within the corporate group.
company_description	Description of the company.
company_country_code	Country code of the company.
company_country_name	Country name of the company.
document_type_code	Code for the financial document type.
document_type_description	Description of the document type.
document_type_reason_code	Code for the document type reason.
posting_key_code	Posting key code.
account_type_code	Code for the account type (customer, vendor, etc.).
account_type_description	Description of the account type.
debit_credit_indicator_code	Debit or credit indicator.
debit_credit_indicator_description	Description of the debit/credit indicator.
pricing_procedure_code	Code for the applied pricing procedure.
tax_code	Associated tax code.
tax_description	Description of the tax.
amount_in_local_currency	Amount in local currency.
amount_in_document_currency	Amount in the document currency.
original_tax_amount_in_local_currency	Original tax amount in local currency.
amount_in_transaction_currency	Amount in the transaction currency.
transaction_currency_code	Code for the transaction currency.
tax_base_amount_in_local_currency	Tax base in local currency.

tax_base_amount_in_foreign_currency	Tax base in foreign currency.
tax_type_code	Code for the tax type.
tax_group_code	Code for the tax group.
transaction_key_code	Code for the accounting transaction.
transaction_key_description	Description of the accounting transaction.
business_transaction_type_code	Code for the business transaction type.
gl_account_code	General ledger (GL) account code.
gl_account_description	Description of the GL account.
customer_code	Associated customer code.
customer_name	Customer name.
customer_country_code	Country code of the customer.
item_code	Code of the item associated with the transaction.
item_description	Description of the item.
plant_or_warehouse_code	Code of the involved plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
quantity	Quantity involved in the transaction.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
posting_string_code	Posting string code.
profit_center_code	Code for the profit center.
profit_center_description	Description of the profit center.
transaction_code	SAP system transaction code.
transaction_description	Description of the SAP transaction.
controlling_area_code	Code for the controlling area.
cost_center_code	Code for the cost center.
cost_center_description	Description of the cost center.
cost_element_code	Code for the cost element.
cost_element_description	Description of the cost element.
profitability_segment_code	Code for the profitability segment.
reversal_indicator_flag	Indicator identifying if the transaction was reversed.
chart_of_accounts_code	Code for the associated chart of accounts.
chart_of_accounts_description	Description of the associated chart of accounts.

XVI. Controlling Costs

This table contains controlling cost records including cost element postings, activity allocations, and internal cost flows. It supports cost analysis, profitability reporting, and management accounting across all business units.

Column	Description
controlling_document_code	Unique identifier for the controlling document.
controlling_document_item_code	Line item within the controlling document.
object_code	Object code for cost assignment.
system_entry_date	Date the entry was recorded.
document_date	Date of the source document.
posting_date	Date the transaction was posted.
controlling_area_code	Code for the controlling area.
controlling_area_description	Description of the controlling area.
company_code	Company code.
company_description	Description of the company.
cost_element_code	Code for the cost element.
cost_element_description	Description of the cost element.
business_transaction_code	Code for the business transaction.
business_transaction_description	Description of the business transaction.
value_type_code	Code for the value type.
value_type_description	Description of the value type.
plant_or_warehouse_code	Code of the plant or warehouse.
plant_or_warehouse_description	Description of the plant or warehouse.
item_code	Code of the item (if applicable).
item_description	Description of the item.
scope_code	Code for the scope.
scope_description	Description of the scope.
controlling_document_type_code	Code for the controlling document type.
controlling_document_type_description	Description of the document type.
plant_account_code	Plant account code.
plant_account_description	Description of the plant account.
type_cost_element_code	Code for the cost element type.
type_cost_element_description	Description of the cost element type.
transaction_currency_cost	Cost in transaction currency.

transaction_currency_code	Transaction currency code.
actual_value_local_currency	Actual value in local currency.
fixed_quantity	Fixed quantity.
total_registered_quantity	Total registered quantity.
fixed_registered_quantity	Fixed registered quantity.
total_quantity	Total quantity.
unit_of_measure_code	Code for the unit of measure.
unit_of_measure_description	Description of the unit of measure.
category_type_code	Code for the category type.
category_type_description	Description of the category type.