



Query Basics

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WINSHUTTLE
USER
GROUP

ANNUAL
CONFERENCE
ATLANTA 2017

Course Objectives



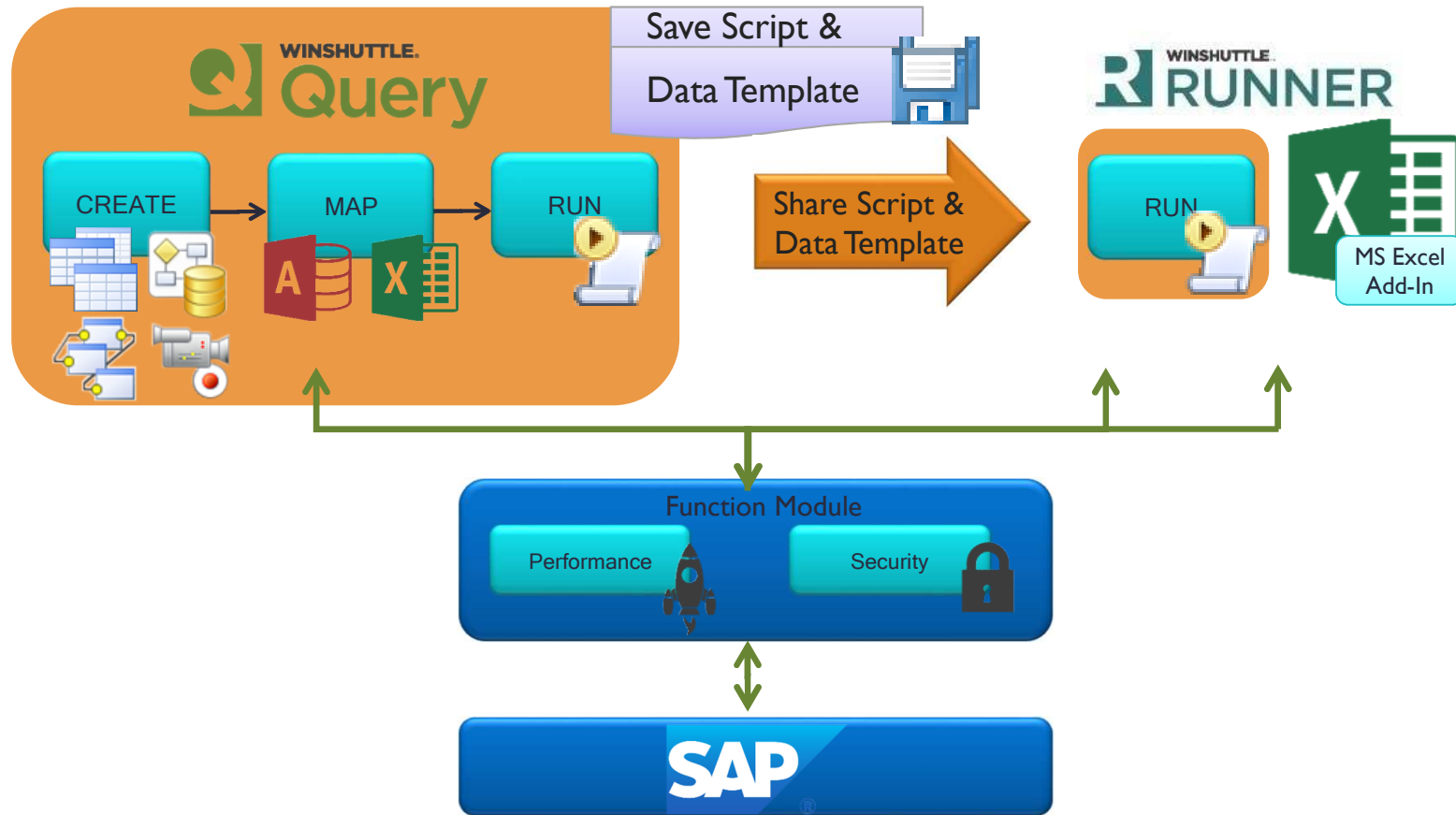
- Select, map and run a query using Winshuttle Query.

Agenda



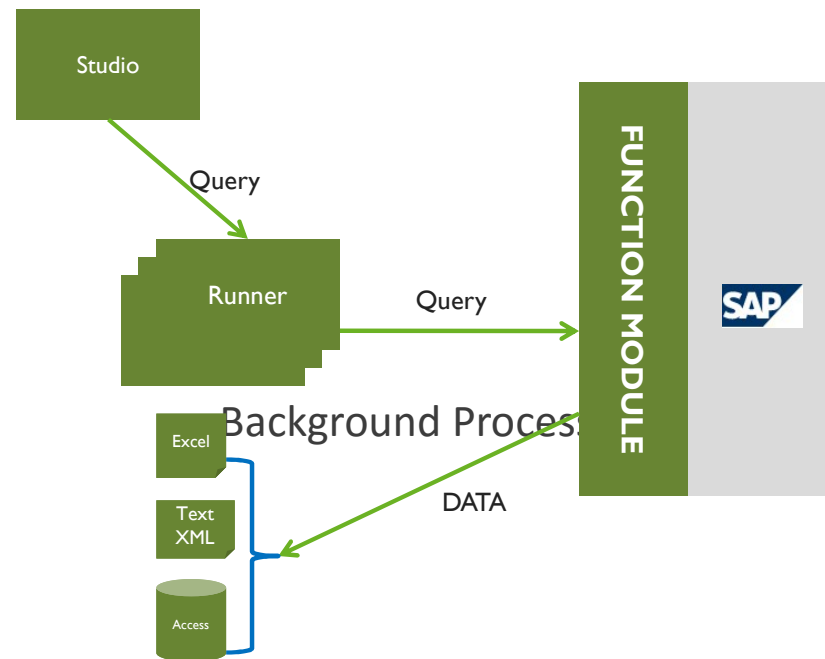
Query Introduction

Query Introduction



Query Introduction

- Function Module
 - Securely extract information
 - Minimal impact on SAP
 - Throttling
 - Run as SAP
 - Data Chunking
 - Create scripts
 - Logical Databases
 - Using SAP Recording



Query Introduction

- Features

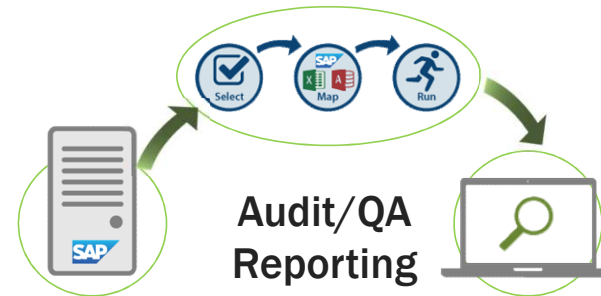
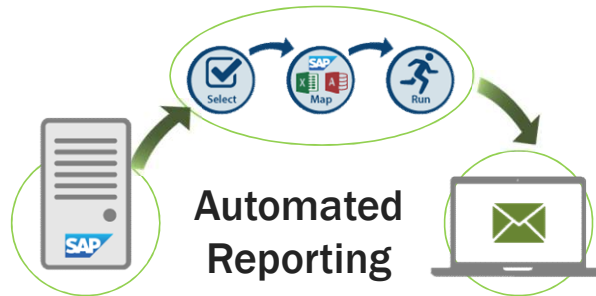
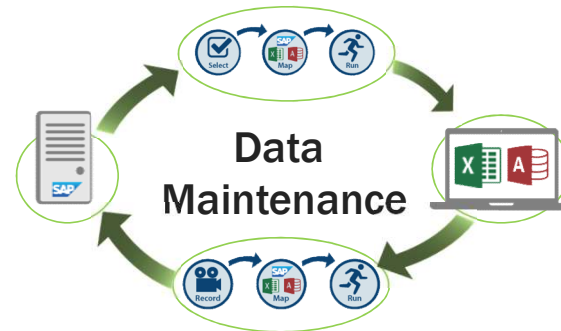
- Uses standard SAP security rules
- Drag and drop mapping
- Automated processing
- Different applications for different types of users

- Developer
- Runner



Query Introduction

- Potential Uses



Agenda



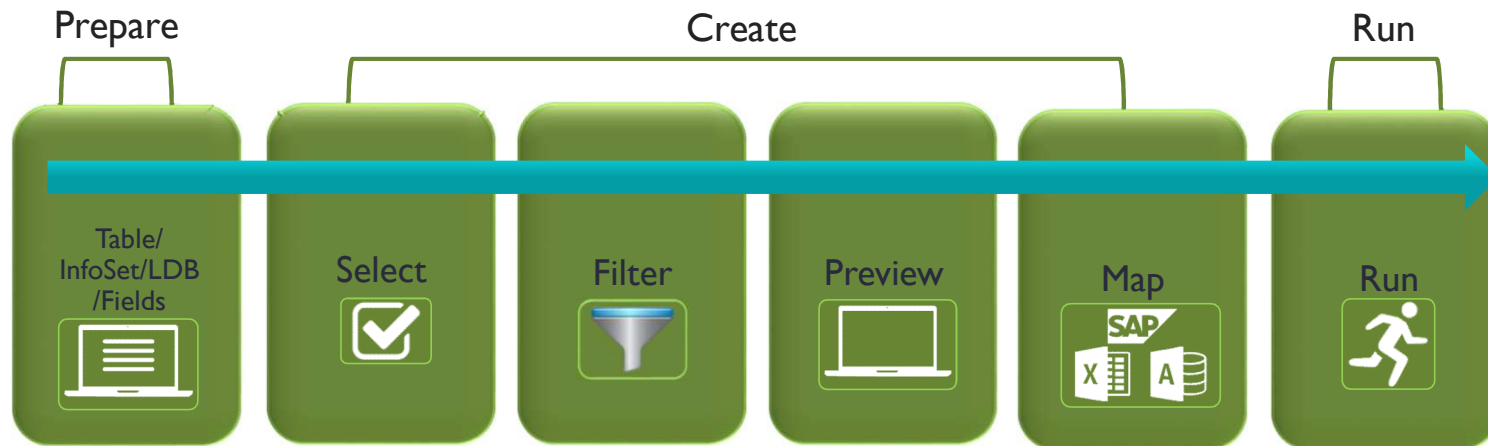
Query Introduction

Creating, Mapping and Running a Query

Additional Information

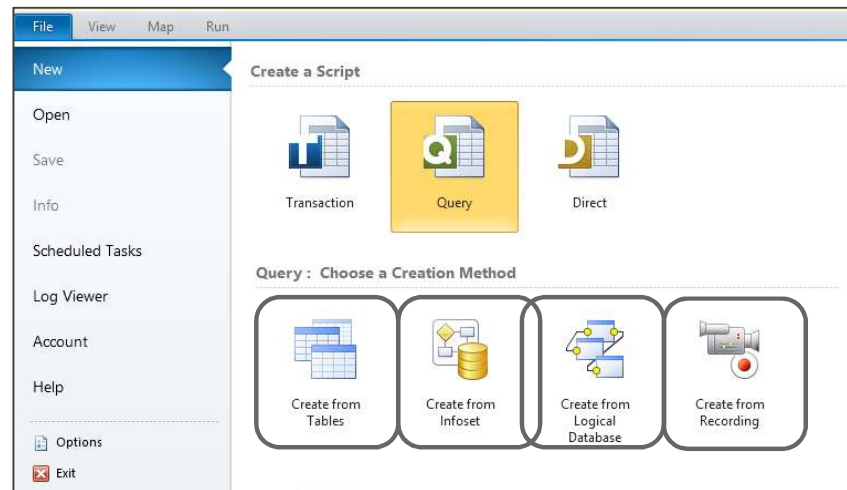
Query Essentials

- The Query Process



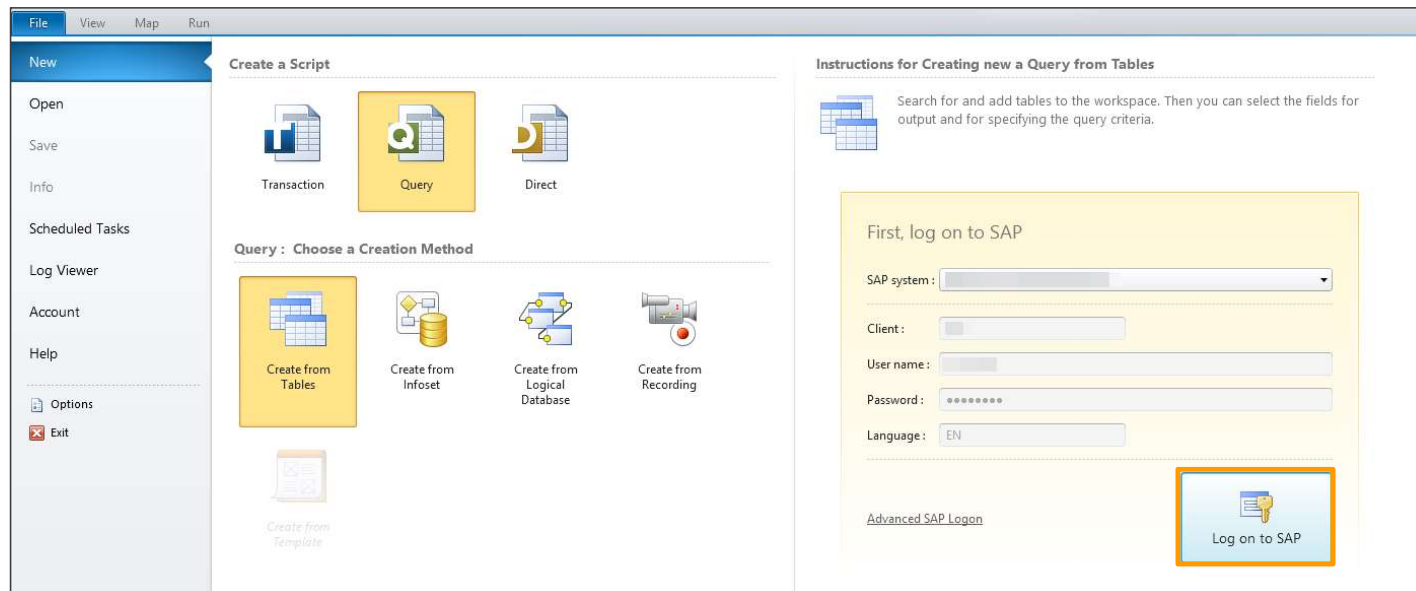
Query Essentials

- New Query
 - Create from
 - Tables
 - InfoSets/Queries
 - Logical Databases
 - Recording



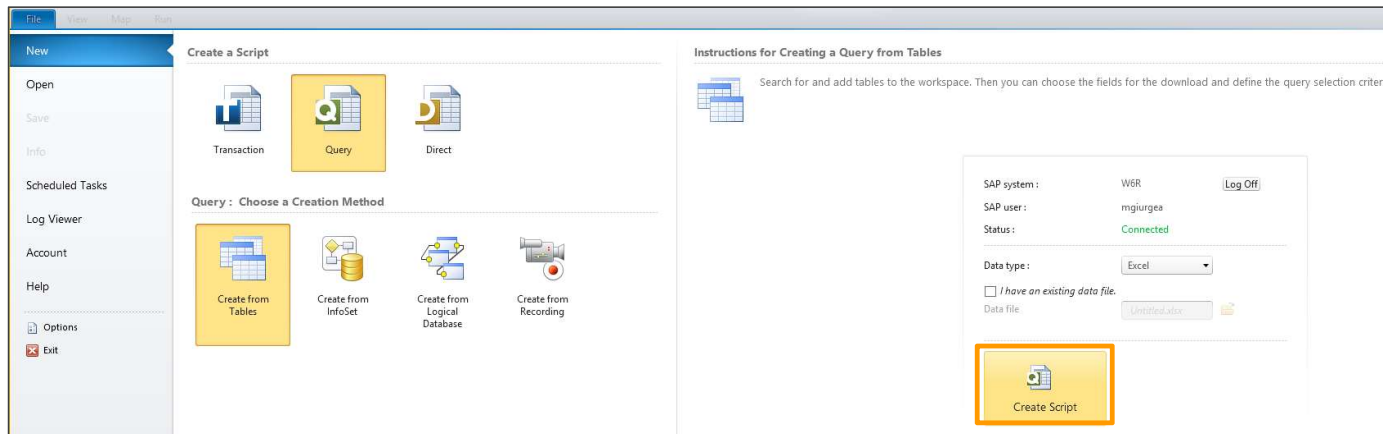
Query Essentials

- File > New > Query > Create from Tables > Log on to SAP



Query Essentials

- Create Script



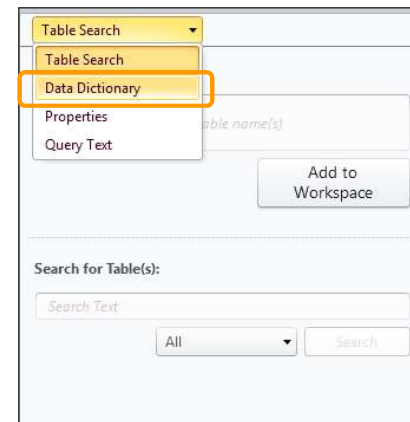
Query Essentials

- Workspace Tab:



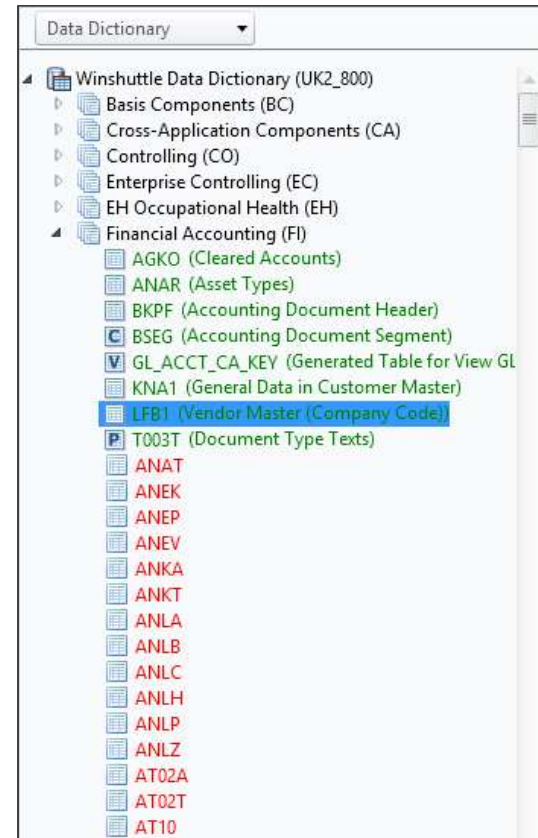
- Workspace
- Table Details
- Joins
- List Operations
- Runtime

- Properties Pane selection:
 - Data Dictionary



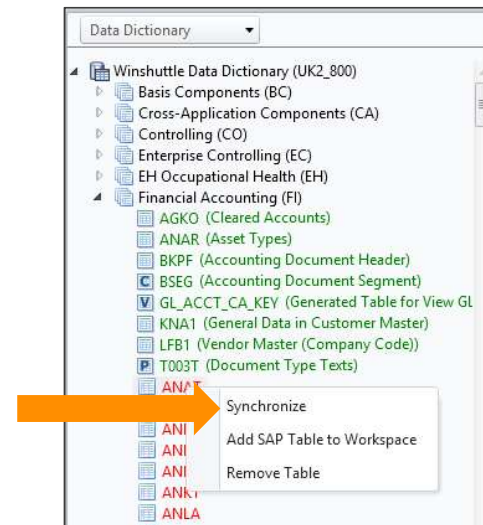
Create, Map and Run

- Workspace
- Winshuttle Data Dictionary
 - Unsynchronized tables
 - Red
 - Italicized
 - Synchronized tables
 - Green
 - Table name
 - Description



Create, Map and Run

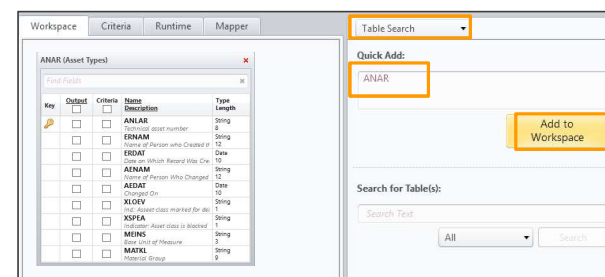
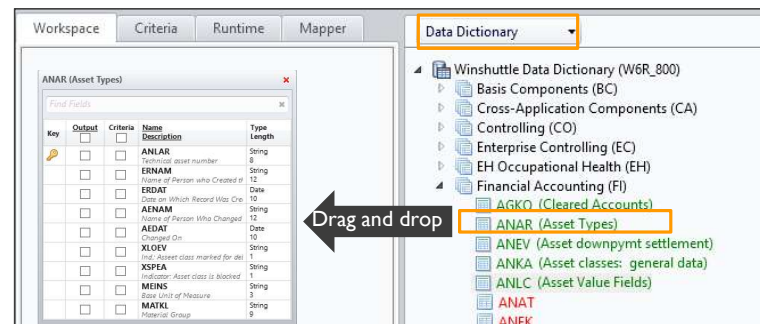
- Synchronizing Tables:
 - Option 1: Manually
 - Table, Category or Data Dictionary
 - Right click
 - Select Synchronize



- Option 2: Tables get automatically synched when added to the Workspace

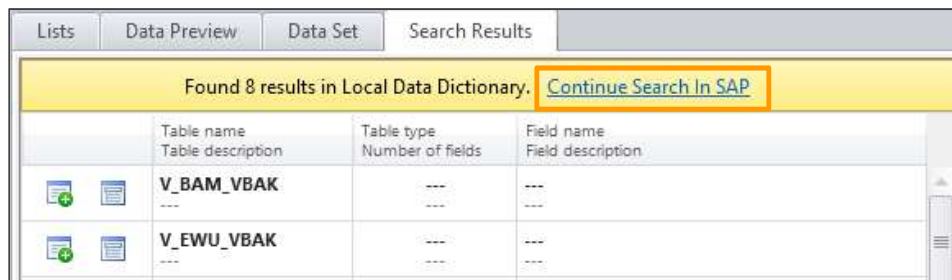
Create, Map and Run

- Adding Tables to Workspace
 - Option 1: when table name is known
 - Data Dictionary
 - Find Table
 - Highlight Table
 - Drag and Drop
 - or
 - Table Search
 - Enter Table Name
 - Click 'Add to Workspace'



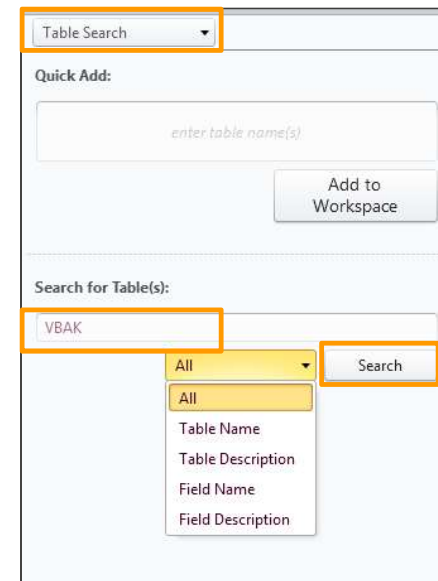
Create, Map and Run

- Adding Tables to Workspace
 - Option 2: when table name is **not known**
 - Table Search in Data Dictionary
 - Enter Search Criteria
 - » Initial Search- Local Data Dictionary
 - » Continue Search in SAP



The screenshot shows the SAP Data Dictionary search results interface. At the top, there are tabs for 'Lists', 'Data Preview', 'Data Set', and 'Search Results'. A yellow banner indicates 'Found 8 results in Local Data Dictionary.' with a button labeled 'Continue Search in SAP'. Below this is a table with the following columns: 'Table name', 'Table description', 'Table type', 'Number of fields', 'Field name', and 'Field description'. Two rows are visible: 'V_BAM_VBAK' and 'V_EWU_VBAK', both with '---' in the 'Table type' and 'Number of fields' columns.

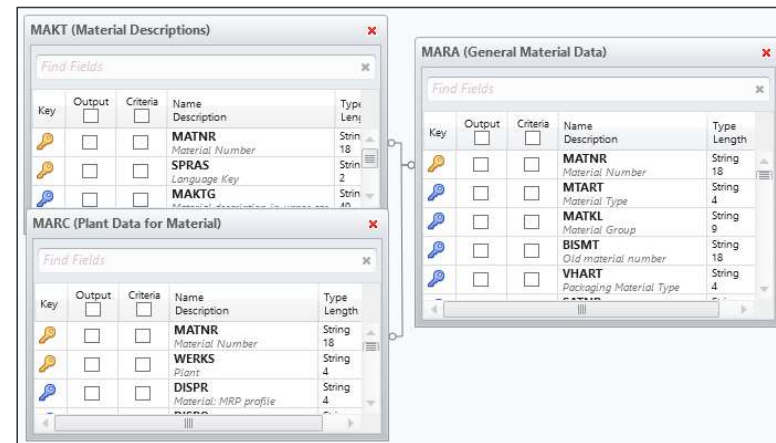
Table name	Table description	Table type	Number of fields	Field name	Field description
V_BAM_VBAK	---	---	---	---	---
V_EWU_VBAK	---	---	---	---	---



The screenshot shows the SAP 'Table Search' dialog box. At the top, there is a dropdown menu labeled 'Table Search'. Below it is a 'Quick Add:' section with a text input field containing the placeholder 'enter table name(s)' and an 'Add to Workspace' button. The 'Search for Table(s):' section contains a text input field with 'VBAK' entered, a dropdown menu set to 'All', and a 'Search' button. The dropdown menu is open, showing options: 'All', 'Table Name', 'Table Description', 'Field Name', and 'Field Description'.

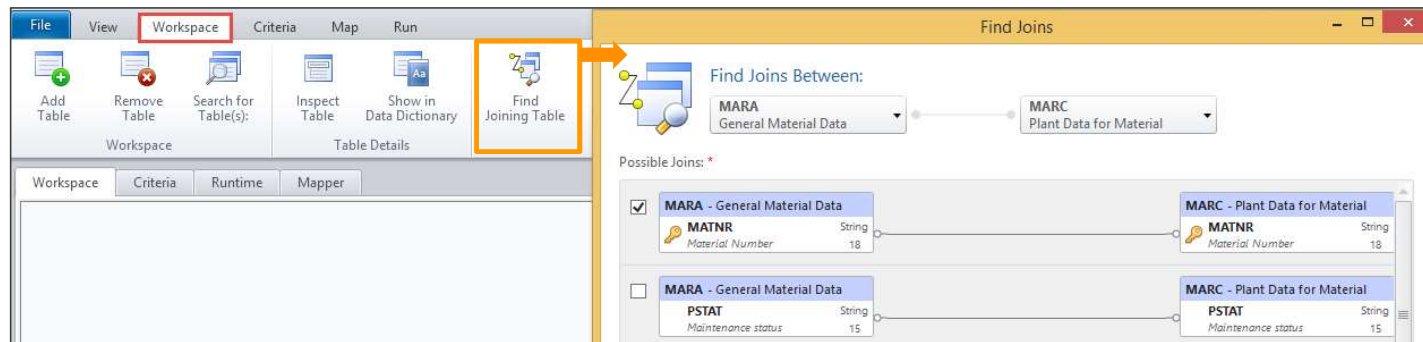
Create, Map and Run

- Table Joins
 - Automatically created joins
 - Primary Key Fields
 - User-created joins
 - Queries with multiple tables must be joined



Create, Map and Run

- Workspace Tools
 - Find Joining Table



Create, Map and Run

- Select Output Fields
 - Field Description & Technical Name
 - Set Order of Fields

The screenshot displays the SAP Query Designer interface with three tables: MARA (General Material Data), MARC (Plant Data for Material), and MAKT (Material Descriptions). The 'Mapper' tab is active, showing the 'Find Fields' list for each table. The 'Output' column in the 'Find Fields' lists has checkboxes for selecting fields. In the 'Output Fields' section at the bottom, three fields are selected and highlighted with an orange border: MARA.MATNR (Material Number), MAKT.SPRAS (Language Key), and MARC.WERKS (Plant).

Table	Key	Output	Criteria	Name	Description	Type	Length
MARA (General Material Data)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	MATNR	Material Number	String	18
		<input type="checkbox"/>	<input type="checkbox"/>	MTART	Material Type	String	4
		<input type="checkbox"/>	<input type="checkbox"/>	MATKL	Material Group	String	9
		<input type="checkbox"/>	<input type="checkbox"/>	BISMT	Old material number	String	18
		<input type="checkbox"/>	<input type="checkbox"/>	VHART	Packaging Material Type	String	4
		<input type="checkbox"/>	<input type="checkbox"/>	STADM	Plant	String	4
		<input type="checkbox"/>	<input type="checkbox"/>	STADM	Plant	String	4
MARC (Plant Data for Material)		<input type="checkbox"/>	<input type="checkbox"/>	MATNR	Material Number	String	18
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	WERKS	Plant	String	4
		<input type="checkbox"/>	<input type="checkbox"/>	DISPR	Material: MRP profile	String	4
		<input type="checkbox"/>	<input type="checkbox"/>	DISPO	MRP Controller (Materials Pl.)	String	3
		<input type="checkbox"/>	<input type="checkbox"/>	NFMAT	Follow-Up Material	String	18
		<input type="checkbox"/>	<input type="checkbox"/>	PRCTR	Profit Center	String	10
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
	<input type="checkbox"/>	<input type="checkbox"/>					
MAKT (Material Descriptions)		<input type="checkbox"/>	<input type="checkbox"/>	MATNR	Material Number	String	18
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPRAS	Language Key	String	2
		<input type="checkbox"/>	<input type="checkbox"/>	MAKTG	Material description in upper case	String	40
		<input type="checkbox"/>	<input type="checkbox"/>	MAKTX	Material Description (Short Text)	String	40
		<input type="checkbox"/>	<input type="checkbox"/>				

Output Fields	Criteria Fields	Tables & Joins
<input checked="" type="checkbox"/> MARA.MATNR Material Number String 18		
<input checked="" type="checkbox"/> MAKT.SPRAS Language Key String 2		
<input checked="" type="checkbox"/> MARC.WERKS Plant String 4		

Create, Map and Run

- Criteria Tab (1 of 2)

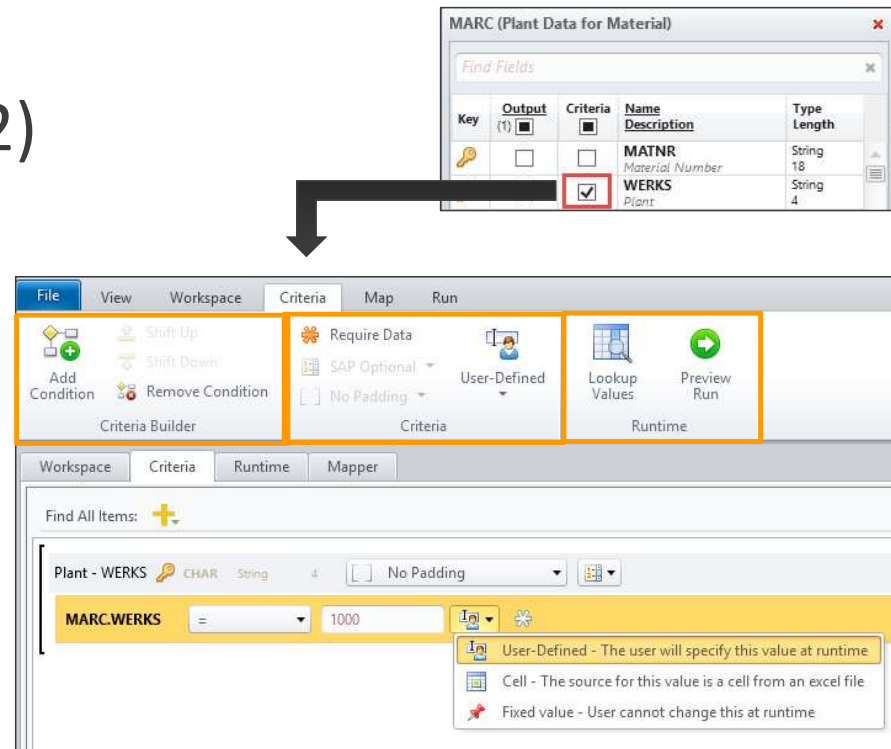
- Criteria Builder

- Criteria

- Require Data
- User-Defined

- Runtime

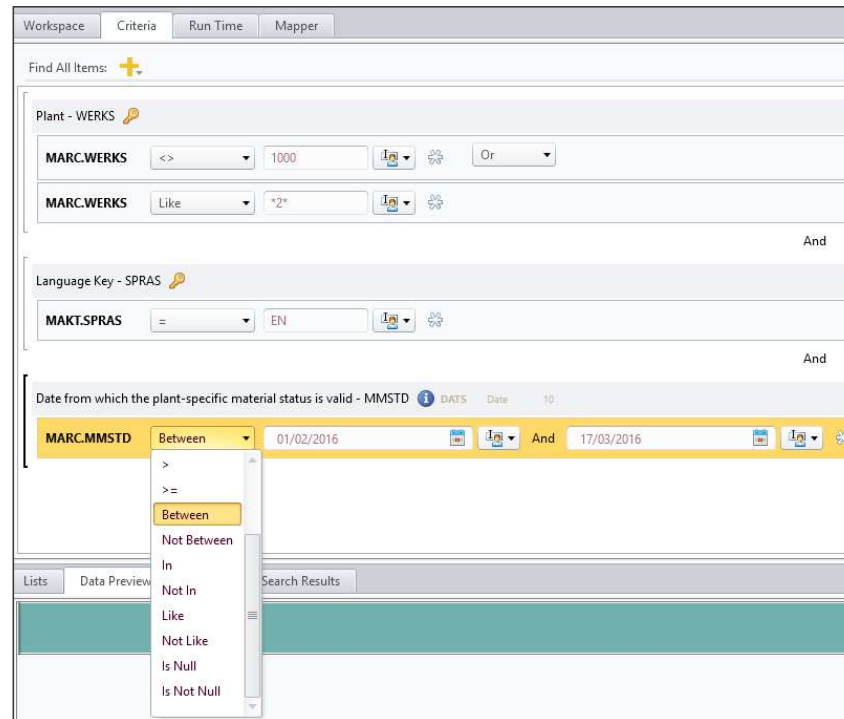
- Lookup Values
- Preview Run



Create, Map and Run

- Criteria Tab (2 of 2)

- Operator
- Condition
- Files
- Select Values
- Wildcards
- Dates



Create, Map and Run

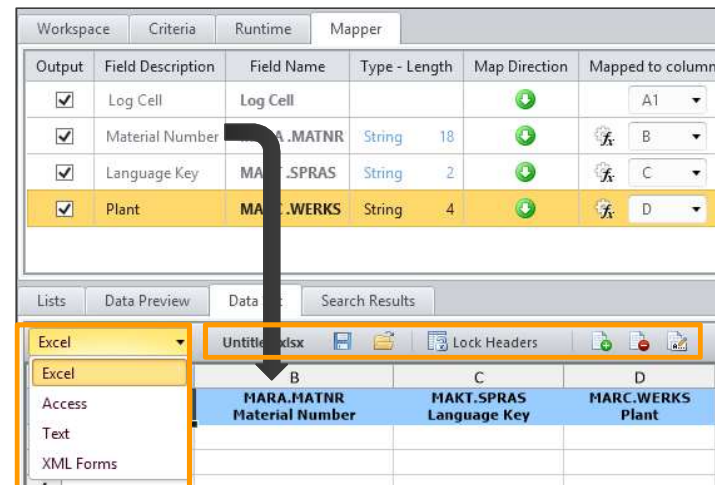
- Map Tab (1 out of 2)



- Add Transform
- Sheet Headers and Mapping
- Runtime

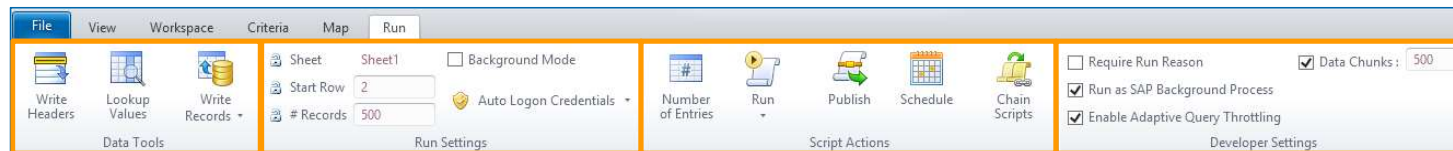
Create, Map and Run

- Map Tab (2 out of 2)
 - Choice of data source
 - Drag and Drop
 - Excel Options



Create, Map and Run

- Run Tab



- Data Tools
- Run Settings
- Script Actions
- Developer Settings:
 - Require Run Reason
 - Run as SAP Background Process
 - Enable Adaptive Query Throttling
 - Data Chunks

Agenda



- Query Introduction
 - Creating, Mapping and Running a Query
 - **Additional Information**

Additional Information

- Tips for Success



- Only include necessary Tables, Fields, and Joins

- Joins between Primary Key fields have the best performance

- Run a Preview to verify that the results are what is required

Questions?





Hands On Practice

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Navigation for Practice

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Username: Your email address

Password: Training1

1. Click **Current Learning**
2. Click session title
3. Select item to practice (wait a few seconds for it to load)
4. Click Standard Tutorial

