

Mastering JMP | 26th January 2024

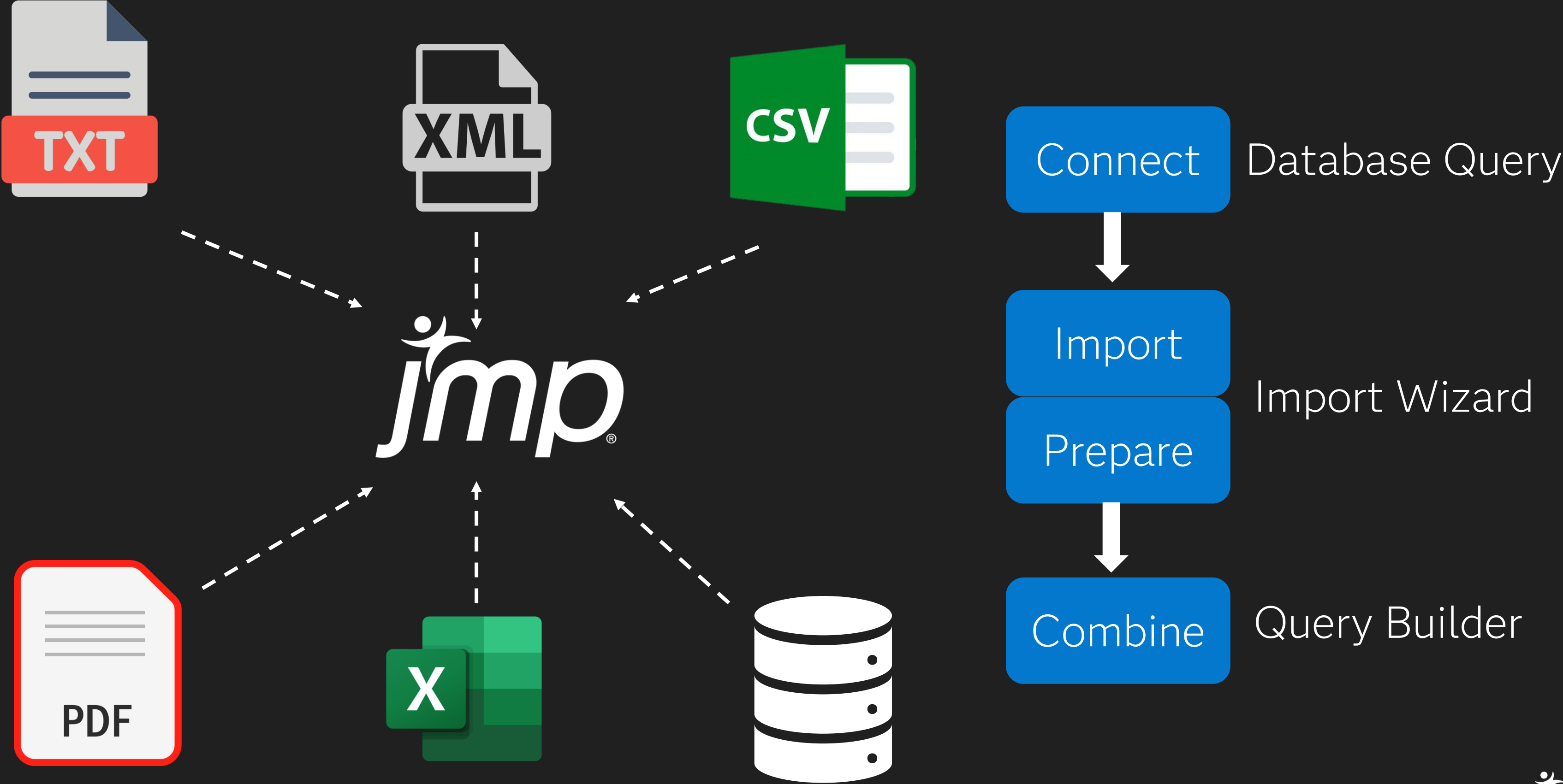
Importing, Consolidating & Maximizing the Value of Your Data

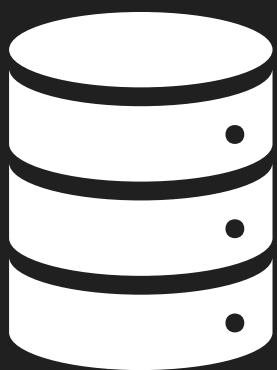
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Dealing with Data





Result Log

Sample

Test

Result

Sample Log

Sample

Lot

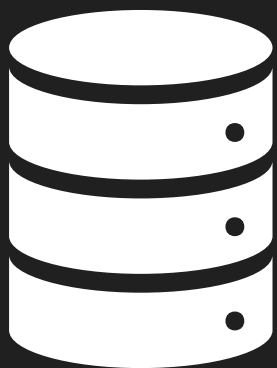
Lot Log

Material

Lot

Connect – Case Study

- Production Plant with different work logs stored on a central database
- Workers need to identify the tests performed on each lot and the result
- Need to connect the separate data tables together
- Query Builder - **connect** and **extract key information**



Result Log

Sample

Test

Result

Sample Log

Sample

Lot

Lot Log

Material

Lot

Table of:

Lot

Result

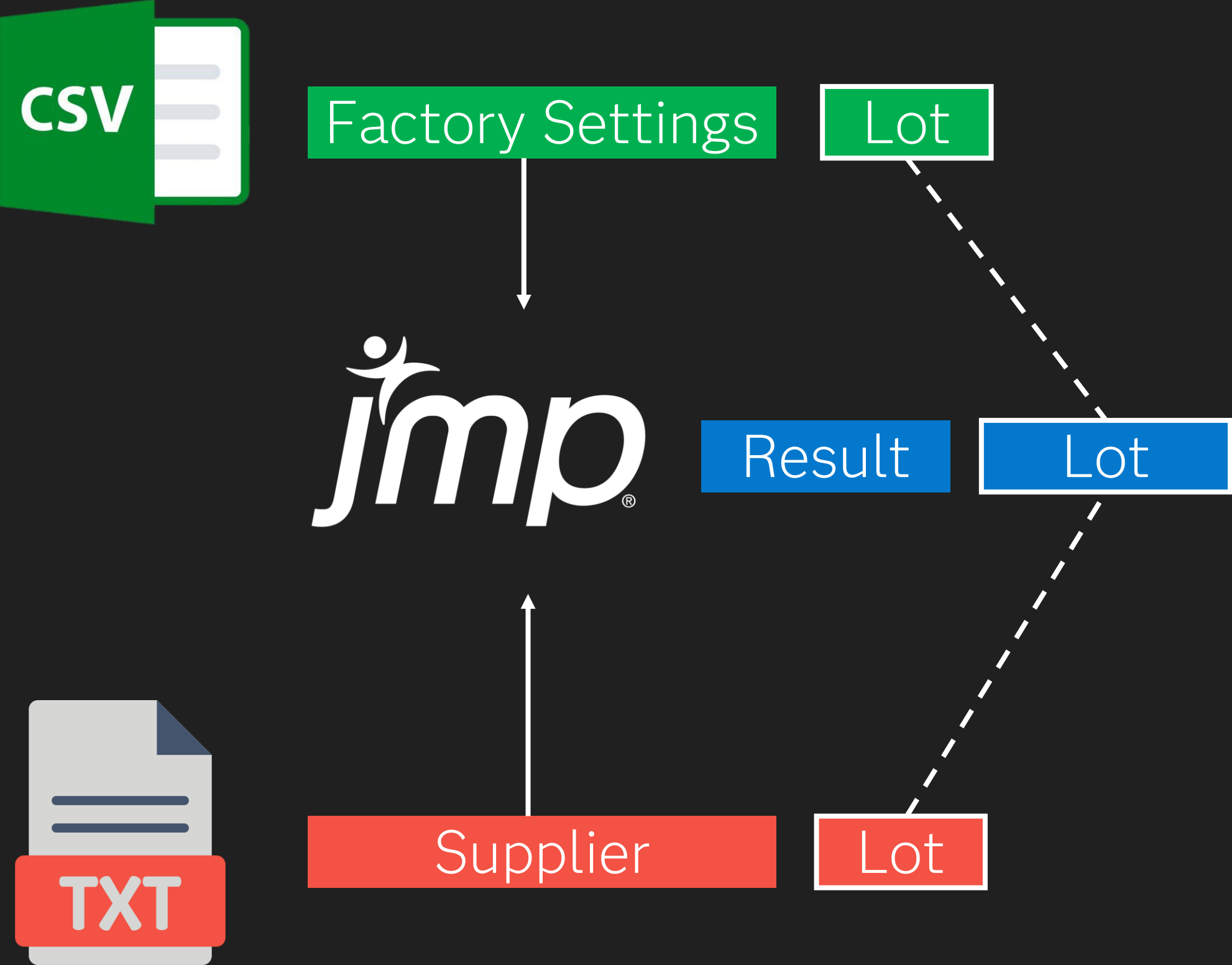
Filtering by:

Test

Material

Lets Connect....

Connecting Data Tables from different sources



Irrelevant columns

Multi-row column headers

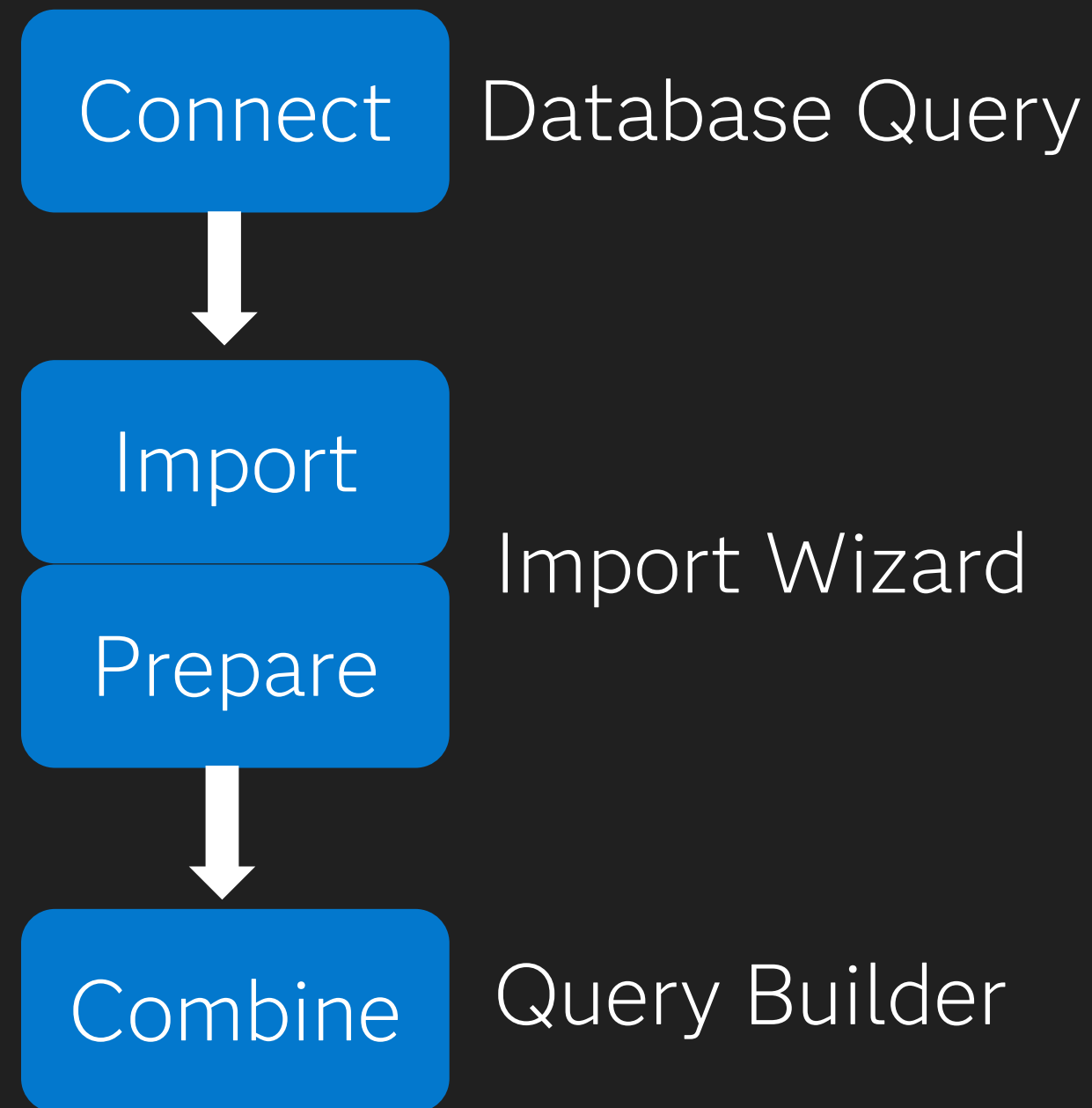
	A	B	C	D	E	F	G	H	I	J	K	
1	Process Data											
2	Captured: 16/02/15			API Lot No.	Force	Mill Time	Screen Size	Blend Time	Blend Speed	Compressor	Coating Viscosity	
3					N	hr		hr	rpm		cp	
4				API0001	25.4666912	27	4	16.04319858	59.88738347	COMPRESS2	105.3611582	
5				API0004	24.93406224	11	5	14.36154901	59.79302953	COMPRESS2	100.2324839	
6				API00017	25.50390751	20	4	14.45874484	60.79748693	COMPRESS2	100.2716029	
84				API000801	25.22950497	18	3	13.31558293	59.93617625	COMPRESS2	97.93417069	
85				API000811	25.15005939	12	4	17.14583226	61.3437317	COMPRESS1	96.81446075	
86				API000812	24.98857121	7	3	16.36785373	60.26657533	COMPRESS1	101.156095	
87				API000829	25.496388	5	3	14.12477498	58.98514821	COMPRESS2	103.6125707	
88				API000852	25.39580013	9	4	16.57858606	59.2575971	COMPRESS1	98.00105416	
89				API000857	25.32969416	5	4	13.83601269	59.10524183	COMPRESS2	101.6006403	
90				API000865	24.57840795	14	3	16.96384698	61.30284792	COMPRESS2	102.1680312	
91				API000888	25.01386012	9	5	16.50551727	61.21679749	COMPRESS2	94.15416361	
92				API000895	25.30669065	24	4	15.33943688	60.44858039	COMPRESS1	92.51913455	
93				API000897	24.92816227	13	5	13.35558786	59.90000231	COMPRESS1	104.1572454	
94												
95				TEST DATA								
96				///215912368	Owner	Ad4674	Last record	1188512				
97												
98												

Irrelevant rows

Set up ODBC Drivers and use SQL Statements to retrieve data

Text and Excel Import and exclusion of unnecessary rows/columns

Combined data tables with matching rows in preparation for analysis



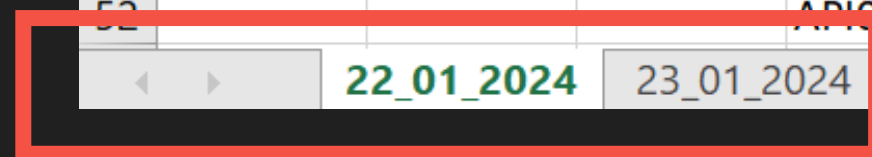
Irrelevant
columns

Merged rows

	A	B	C	D	E	F
1	Process Data					
2	Captured: 22/01/24			API Lot No.	Line	Machine
3						
4				API0001	Line_1	A
5				API0004		
6				API00017		
7				API00036		
8				API00055		
9				API00058		
19				API000173		B
20				API000181		
21				API000198		
22				API000200		
33				API000328	Line_2	A
34				API000331		
35				API000340		
36				API000365		
45				API000466		
46				API000477		
47				API000479		B
48				API000483		
49				API000495		
50				API000497		
51				API000502		
52				API000505		

Missing Data

Workbooks



Data Connectors

Data access is fundamental. It's the starting point for any analytic journey. That's why, with JMP, we make it easy to access your data from a variety of sources.

Data Source	Type	How to Connect
Amazon Aurora	Database	Database → Query Builder (ODBC 3.5 driver)
Amazon Redshift	Database	Database → Query Builder (ODBC 3.5 driver)
Azure SQL	Database	Database → Query Builder (ODBC 3.5 driver)
DB2	Database	Database → Query Builder (ODBC 3.5 driver)
Data Feed From Laboratory Instrument*	Data Feed	Open Datafeed();
Dynamic Linked Libraries (DLLs)*	Data Feed	Load DLL();

Query and Join Data Tables with JMP Query Builder

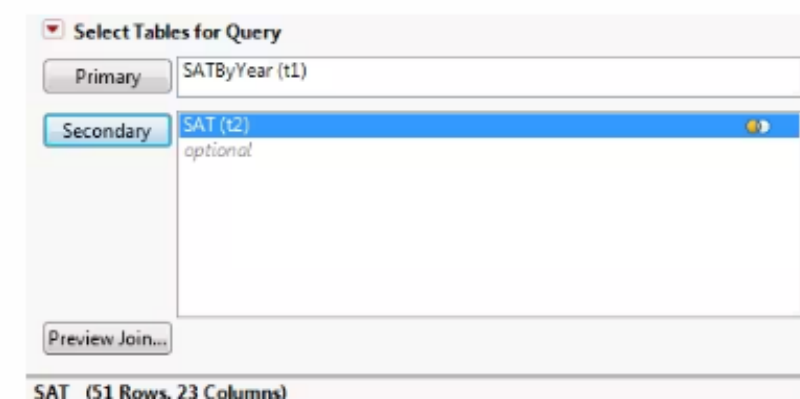
The JMP Query Builder option in the Tables menu enables you to query data tables and save selected data into a new data table. This feature is similar to using the Join command but lets you perform queries before saving the data. For example, you can query SAT data and save only data for 2004 test scores in a data table. You can also include a prompt that lets the user run the query and choose a subset of the 2004 test scores.

1. Select **Help > Sample Data Folder** and open `SAT.jmp` and `SATByYear.jmp`.
2. Display `SATByYear.jmp`.
3. Select **Tables > JMP Query Builder**.

The current data table, `SATByYear.jmp`, is selected as the Primary table.

4. Select `SAT.jmp` in the Available Tables list and click **Secondary**.
5. Select `SAT.jmp` next to the Secondary button and view the Columns tab. The Join column shows that two columns have the same name and were joined.

Figure 6.30 Joined Columns ▼



Next in Mastering JMP

Easy DoE Flexible Mode – Maximizing Your DOE Capabilities

Friday, February 23rd 2024

12:00 CET (11:00 GMT)

Understanding and Modelling Response Curves

Friday, March 15th 2024

12:00 CET (11:00 GMT)



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