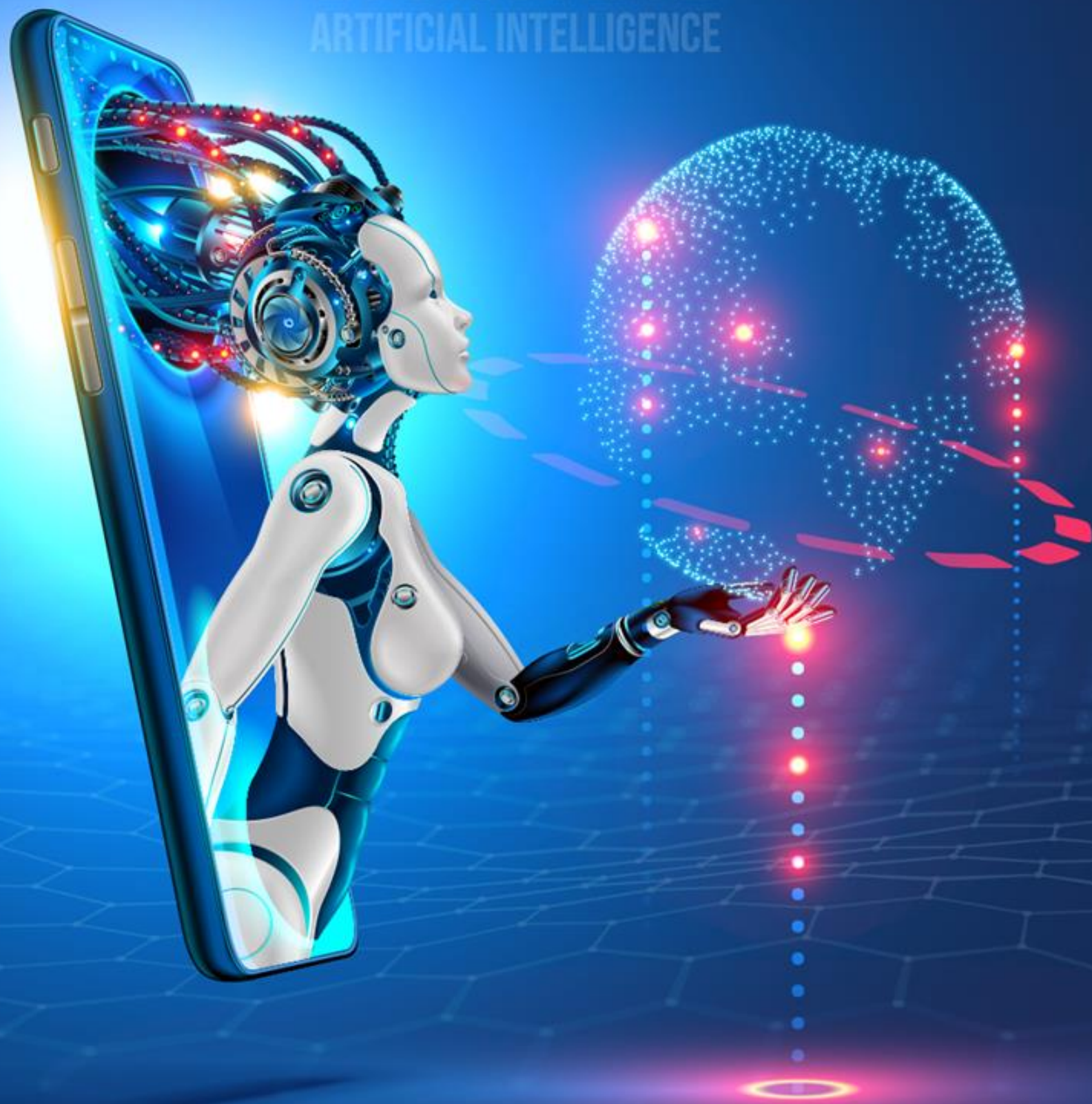DATA AND
ARTIFICIAL INTELLIGENCE

Data Manipulation and Reporting with Power BI

simplilearn

Connecting to Data Sources

Learning Objectives

By the end of this lesson, you will be able to:

- Connect and pull data from different data sources

- Identify the different data types

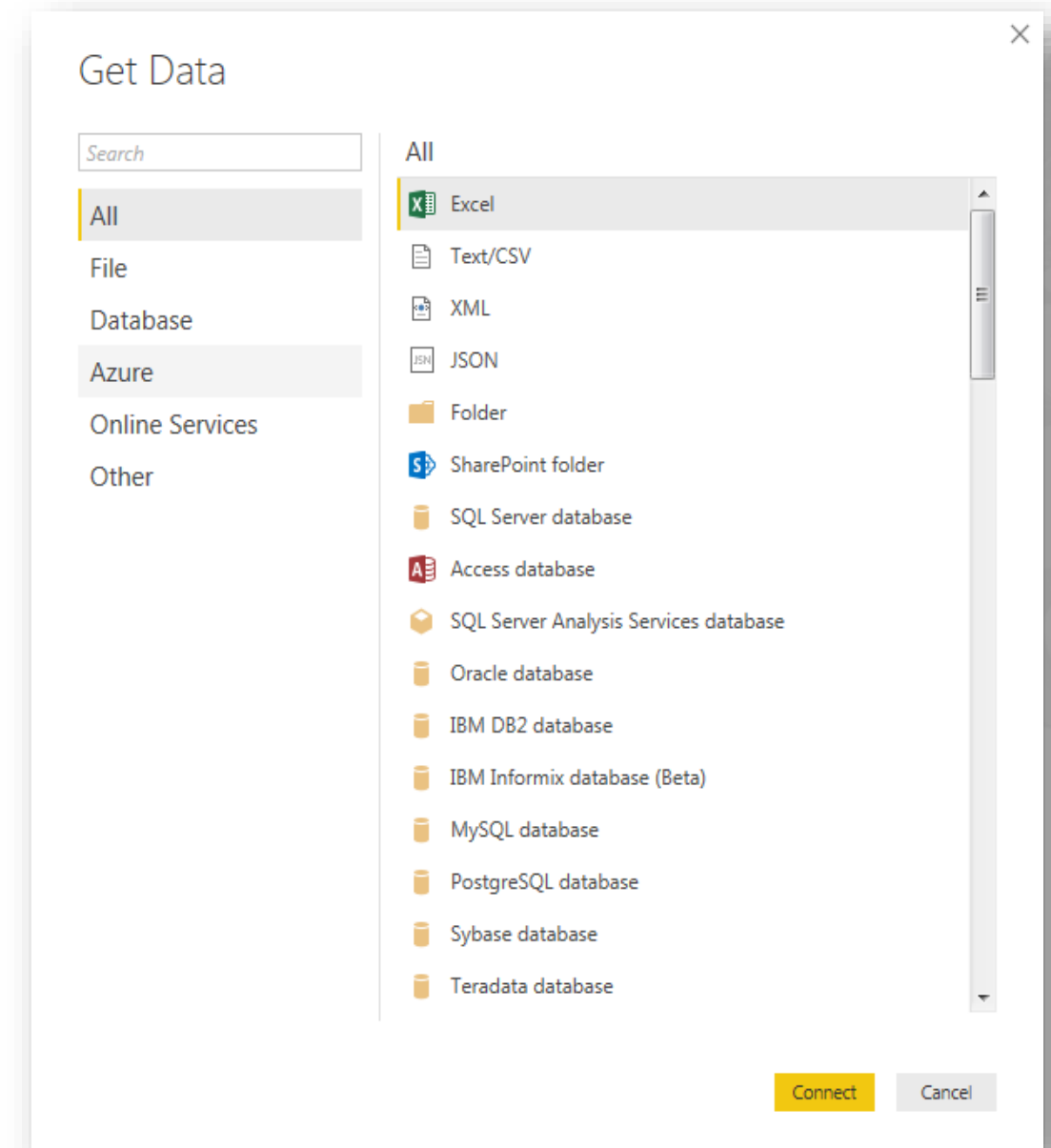- Know the difference between importing data and connecting live

Import Data and Data Types

simpli·learn

Supported Data Sources

Before you start creating a report, you must connect to a data set. Power BI Desktop allows you connect to about 60 different types of data sources.

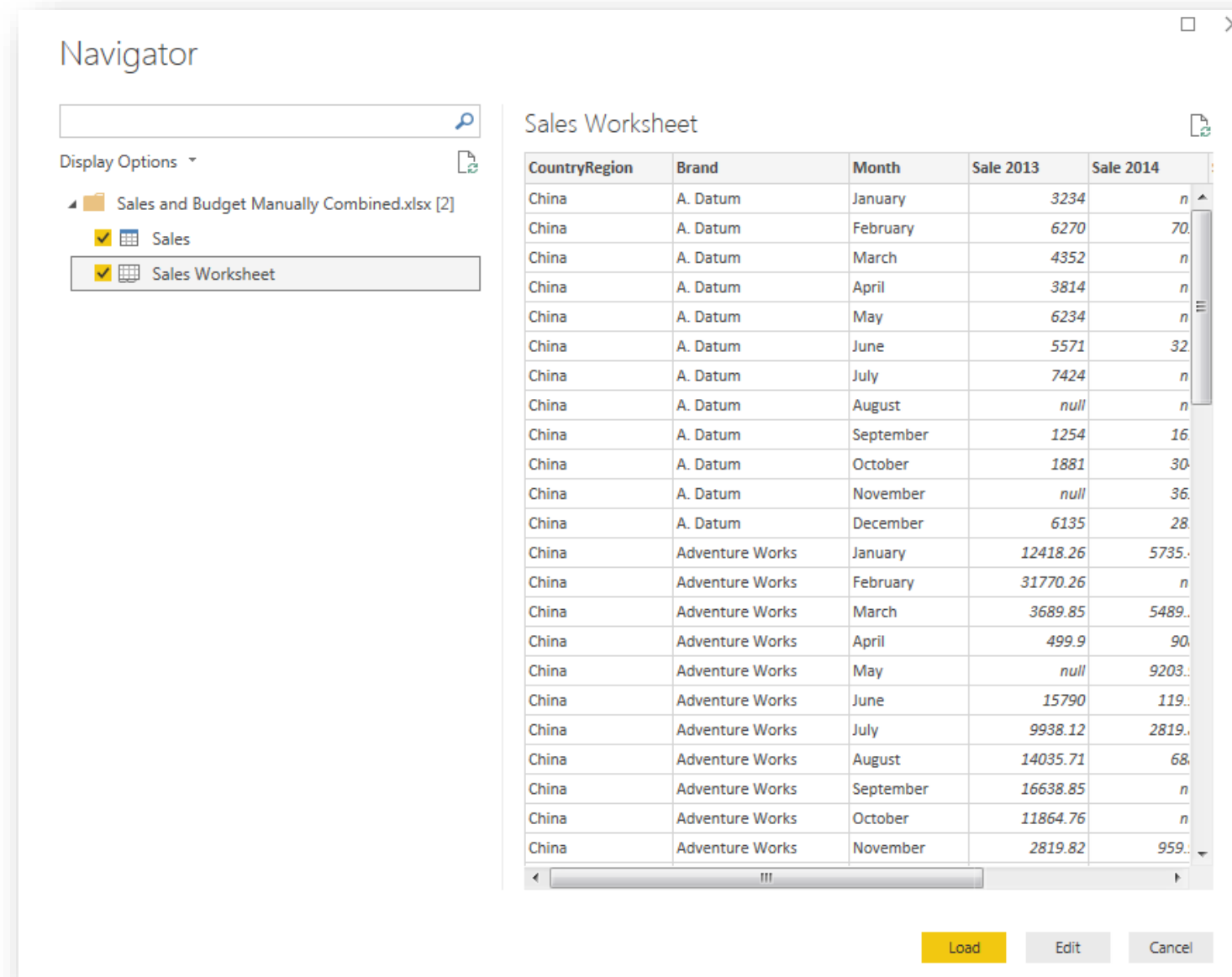Here are few examples of data sources supported in Power BI.

Get Data

	All
Search	Excel
All	Text/CSV
File	XML
Database	JSON
Azure	Folder
Online Services	SharePoint folder
Other	SQL Server database
	Access database
	SQL Server Analysis Services database
	Oracle database
	IBM DB2 database
	IBM Informix database (Beta)
	MySQL database
	PostgreSQL database
	Sybase database
	Teradata database

Connect   Cancel

Import Data Vs. Connect Live

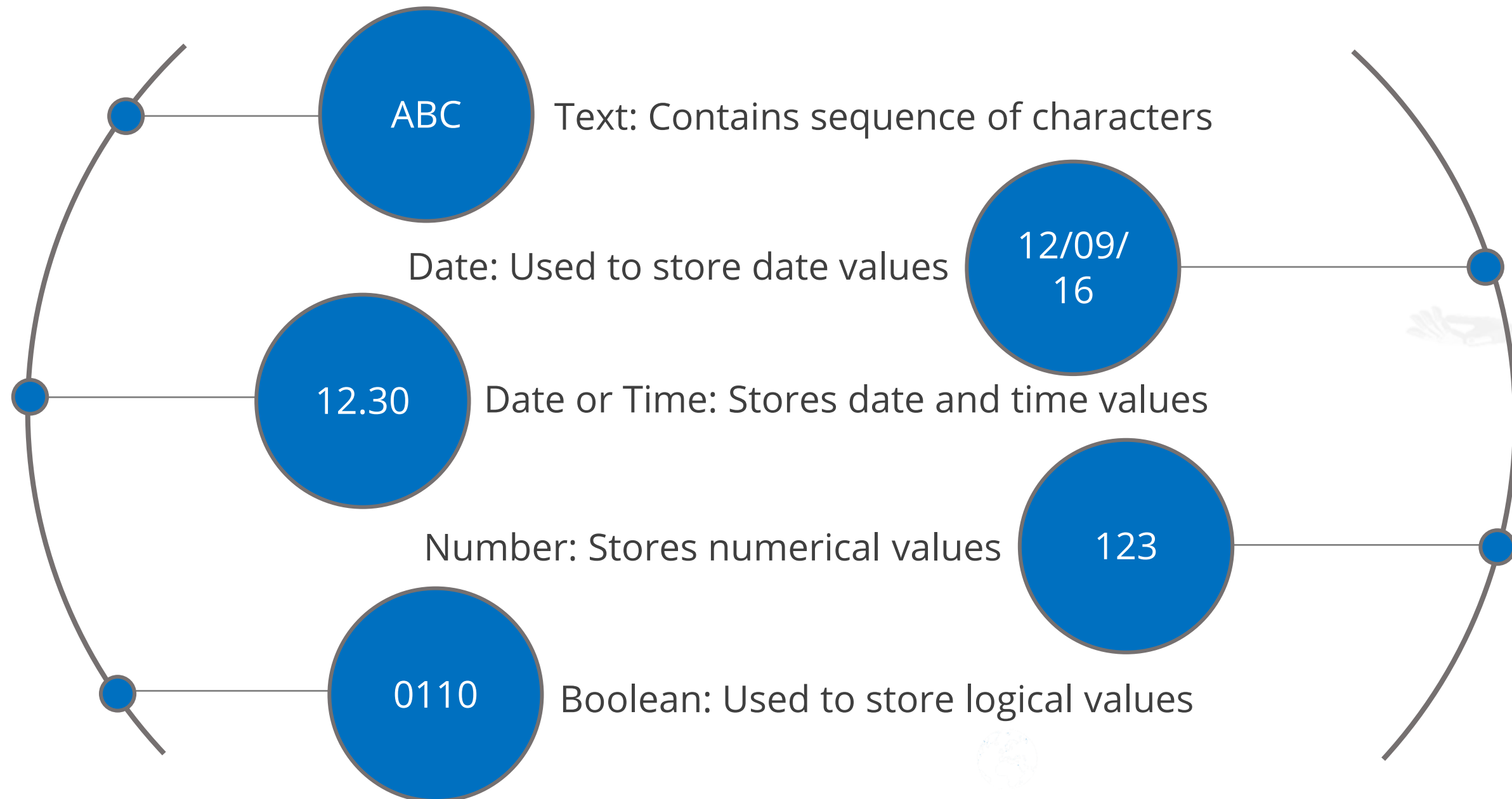| Data Import	Connecting Live
Works with any data source	Does not work with all kind of data types
Has limitations on the number of refreshes per day	Unlimited data refreshes
Dashboards created using imported data can be shared with anyone, inside, or outside the organization	Users have access to the underlying data source. Hence, it cannot be shared publicly.
The data model can be managed (creating calculated columns and measures) on the Power BI side	The data model can be managed only in the data source

Uploading Data

- Once you select your desired data source, Power BI takes you to the Navigator window. In this window, you can view the list of tables fetched from the source.

- You can select the tables you want to import.

Data Types

Data types determine the kind of information stored in that field. Examples of different data types are:

ABC — Text: Contains sequence of characters

Date: Used to store date values — **12/09/16**

12.30 — Date or Time: Stores date and time values

Number: Stores numerical values — **123**

0110 — Boolean: Used to store logical values

Data Import from Various Sources

Objective: To import data from Google Sheets and Excel files.

Access: To execute the practice, follow these steps:
Step 1: Open the MS - Excel and create an Excel sheet.
Step 2: Open the Power BI Desktop tool.
Step 3: On the top menu bar, click on the "Get Data" tab.
Step 4: Click on "Excel" and select the Excel sheet you want to import and click on the "Load" button.

Please note: The steps for Google Sheets and any web URL are the same. The web URL needs to be published to the public or must be publicly available

Step 1: On the top menu bar, click on the "Get Data" tab.
Step 2: Click on the web and enter the URL. For getting the URL, open the Google Sheet and click on "File". Now, click on "Publish to the web".
Step 3: Copy the URL and paste it on the Power BI tool and click on the "OK" button.
Step 4: To load the data, click on the "Load" button.

Knowledge Check

Knowledge Check

1

Using the import data option, is there a limitation on the number of data refreshes per day?

a. Yes

b. No

Knowledge Check

1

Using the import data option, is there a limitation on the number of data refreshes per day?

a. Yes

b. No

The correct answer is **a.**

Yes, there is a limitation on the number of data refreshes per day.

Knowledge Check

2

While connecting live, the data model is managed in _____.

a.   Power BI

b.   Data Source

Knowledge Check

2

While connecting live, the data model is managed in _____.

a. Power BI

b. Data Source

The correct answer is   **b.**

While connecting live, the data model is managed in data source.

Knowledge Check

3

Which type of connection supports more data sources?

a.   Data Import

b.   Connect Live

Knowledge Check

3

Which type of connection supports more data sources?

a.   Data Import

b.   Connect Live

The correct answer is   **a.**

Data import supports more data sources.

Key Takeaways

You are now able to:

- Connect and pull data from different data sources

- Identify the different data types

- Examine the difference between importing data and connecting live