

ASSIGNMENT No: 07

Title: Import Data from different Sources such as (Excel, Sql Server, Oracle etc.) and load in targeted system.

Problem Statement: Import Data from different Sources such as (Excel, Sql Server, Oracle etc.) and load in targeted system.

Prerequisite:

Basics of Python

Software Requirements: Power BI Tool

Hardware Requirements:

PIV, 2GB RAM, 500 GB HDD

Learning Objectives:

Learn to import data from different sources such as(Excel, Sql Server, Oracle etc.) and load in targeted system.

Outcomes:

After completion of this assignment students are able to understand how to import data from different sources such as(Excel, Sql Server, Oracle etc.) and load in targeted system.

Theory:

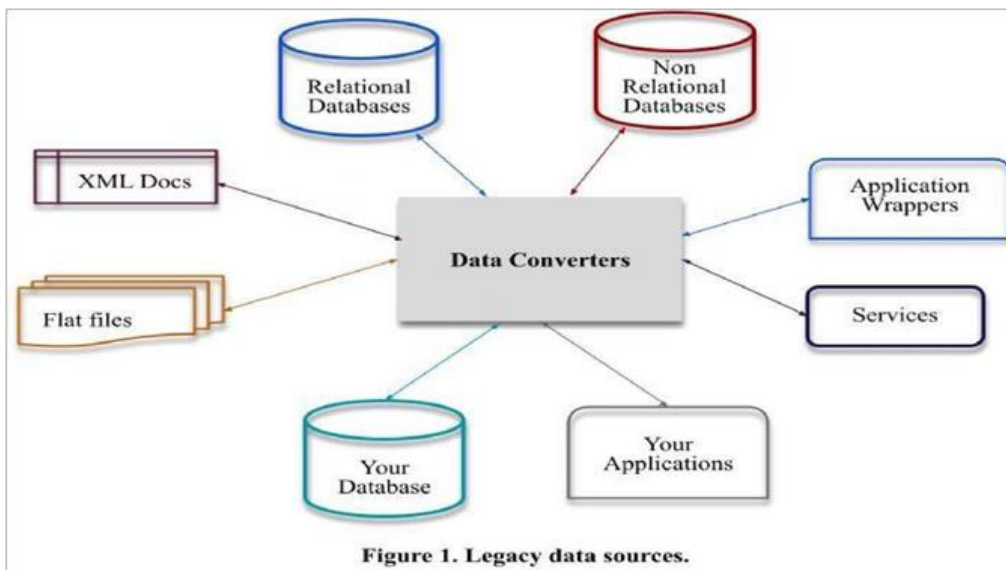
What is Legacy Data?

Legacy data, according to Business Dictionary, is "information maintained in an old or outof-date format or computer system that is consequently challenging to access or handle."

Sources of Legacy Data

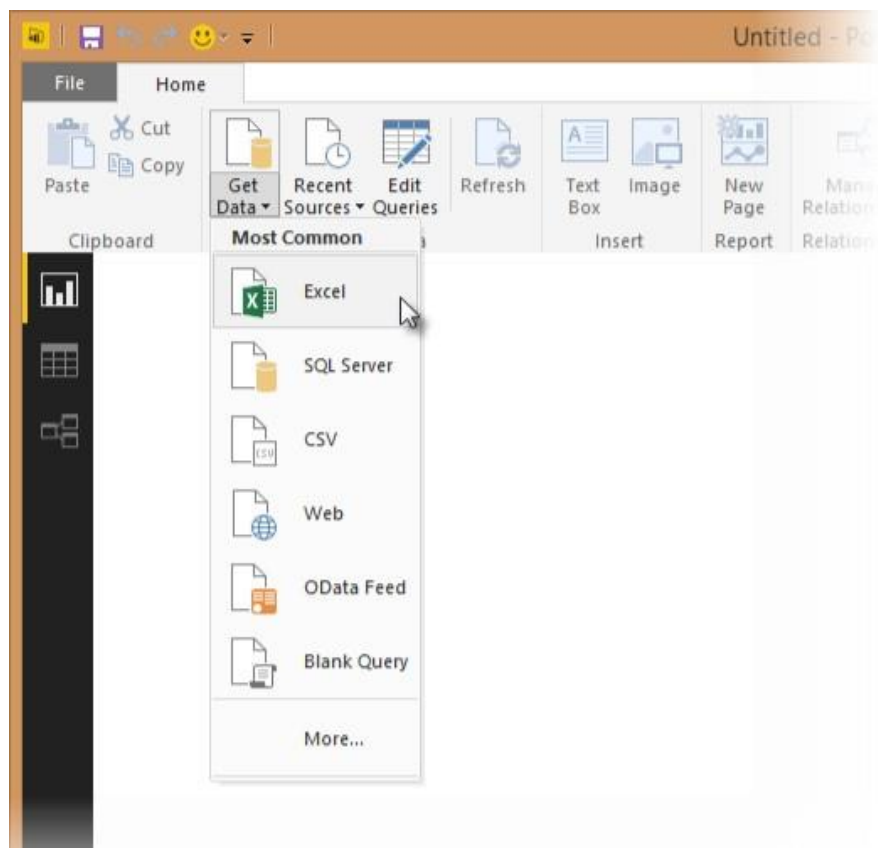
Where does legacy data come from? Virtually everywhere. Figure 1 indicates that there are many sources from which you may obtain legacy data. This includes existing databases, often relational, although non-RDBs such as hierarchical, network, object, XML, object/relational databases, and NoSQL databases. Files, such as XML documents or "flat files"ù such as configuration files and comma-delimited text files, are also common sources of legacy data. Software, including legacy applications that have been wrapped (perhaps via CORBA) and legacy services such as web services or CICS transactions, can also provide

access to existing information. The point to be made is that there is often far more to gaining access to legacy data than simply writing an SQL query against an existing relational database.

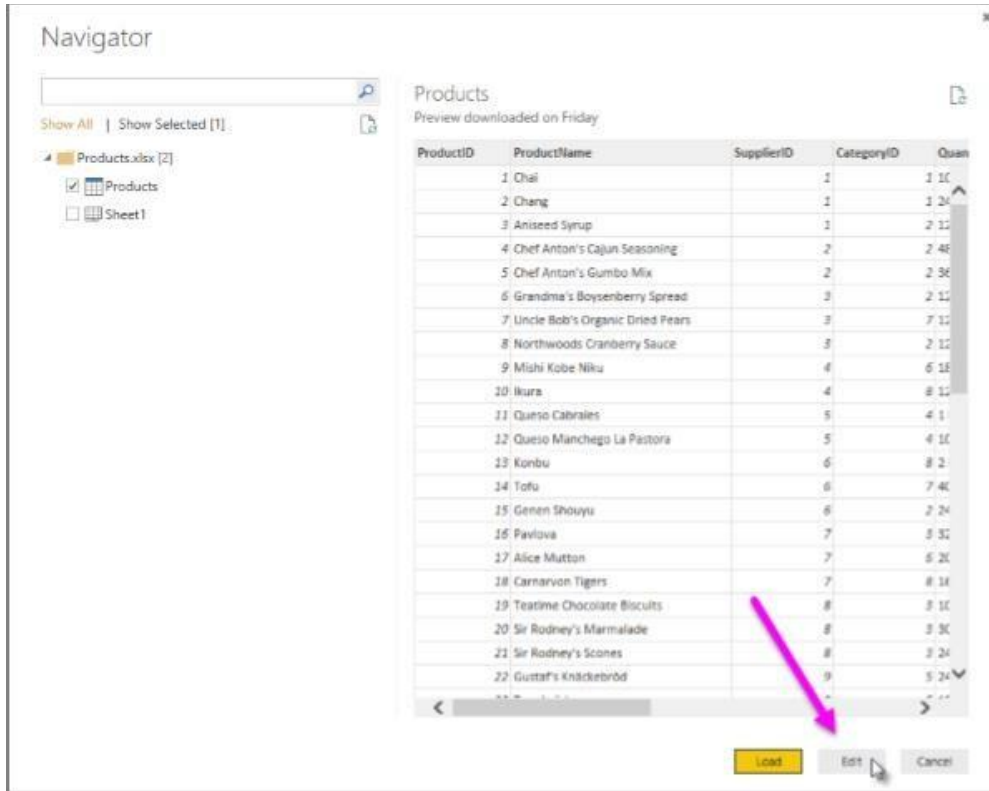


Importing Excel Data

- 1) Launch Power BI Desktop.
- 2) From the Home ribbon, select Get Data. Excel is one of the Most Common data connections, so you can select it directly from the Get Data menu.



- 3) If you select the Get Data button directly, you can also select File > Excel and select Connect.
- 4) In the Open File dialog box, select the Products.xlsx file.
- 5) In the Navigator pane, select the Products table and then select Edit.



The screenshot shows the Power BI Desktop Navigator pane. On the left, there is a tree view with 'Products.xlsx [2]' expanded, showing 'Products' (selected) and 'Sheet1'. The main area displays a table titled 'Products' with the subtitle 'Preview downloaded on Friday'. The table has five columns: ProductID, ProductName, SupplierID, CategoryID, and Quantity. It lists 22 products. At the bottom right of the table, there are three buttons: 'Load', 'Edit', and 'Cancel'. A pink arrow points to the 'Edit' button.

ProductID	ProductName	SupplierID	CategoryID	Quantity
1	Chai	1	1	10
2	Chang	1	1	20
3	Aniseed Syrup	1	2	10
4	Chef Anton's Cajun Seasoning	2	2	40
5	Chef Anton's Gumbo Mix	2	2	30
6	Grandma's Boysenberry Spread	3	2	10
7	Uncle Bob's Organic Dried Pears	3	7	10
8	Northwoods Cranberry Sauce	3	2	10
9	Mishi Kobe Niku	4	6	18
10	Ikura	4	8	10
11	Queso Cabrales	5	4	1
12	Queso Manchego La Pastora	5	4	10
13	Konbu	6	8	2
14	Tofu	6	7	40
15	Genen Shouyu	6	2	24
16	Pavlova	7	5	30
17	Alice Mutton	7	6	20
18	Carnarvon Tigers	7	8	18
19	Teatime Chocolate Biscuits	8	8	10
20	Sir Rodney's Marmalade	8	5	30
21	Sir Rodney's Scones	8	5	24
22	Gustaf's Knäckebröd	9	5	24

Importing Data from OData Feed

In this task, you'll bring in order data. This step represents connecting to a sales system. You import data into Power BI Desktop from the sample Northwind OData feed at the following URL, which you can copy (and then paste) in the steps below:

<http://services.odata.org/V3/Northwind/Northwind.svc/>

Connect to an OData feed:

- 1) From the Home ribbon tab in Query Editor, select Get Data.
- 2) Browse to the OData Feed data source.
- 3) In the OData Feed dialog box, paste the URL for the Northwind OData feed.
- 4) Select OK.
- 5) In the Navigator pane, select the Orders table, and then select Edit.

Navigator

http://services.odata.org/V3/Northwind/Nort...

- Alphabetical_list_of_products
- Categories
- Category_Sales_for_1997
- Current_Product_Lists
- Customer_and_Suppliers_by_Cities
- CustomerDemographics
- Customers
- Employees
- Invoices
- Order_Details
- Order_Details_Extendeds
- Order_Subtotals
- Orders**
- Orders_Queries
- Product_Sales_for_1997
- Products
- Products_Above_Average_Prices
- Products_by_Categories
- Regions

Orders

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate
10248	VINET	5	7/4/1996 12:00:00 AM	8/1/1996
10249	TOMSP	6	7/5/1996 12:00:00 AM	8/16/1996
10250	HANAR	4	7/8/1996 12:00:00 AM	8/5/1996
10251	VICTE	3	7/8/1996 12:00:00 AM	8/5/1996
10252	SUPRO	4	7/9/1996 12:00:00 AM	8/8/1996
10253	HANAR	3	7/10/1996 12:00:00 AM	7/24/1996
10254	CHOPS	5	7/11/1996 12:00:00 AM	8/8/1996
10255	BICSIJ	9	7/12/1996 12:00:00 AM	8/9/1996
10256	WELLI	3	7/15/1996 12:00:00 AM	8/12/1996
10257	HILAA	4	7/16/1996 12:00:00 AM	8/13/1996
10258	ERINSH	1	7/17/1996 12:00:00 AM	8/14/1996
10259	CENTC	4	7/18/1996 12:00:00 AM	8/15/1996
10260	OTTIK	4	7/19/1996 12:00:00 AM	8/16/1996
10261	QUEDE	4	7/19/1996 12:00:00 AM	8/16/1996
10262	RATTC	8	7/22/1996 12:00:00 AM	8/19/1996
10263	ERINSH	9	7/23/1996 12:00:00 AM	8/20/1996
10264	POLKO	6	7/24/1996 12:00:00 AM	8/21/1996
10265	BLOMP	2	7/25/1996 12:00:00 AM	8/22/1996
10266	WARTH	3	7/26/1996 12:00:00 AM	8/6/1996
10267	FRANK	4	7/29/1996 12:00:00 AM	8/26/1996
10268	GROSR	8	7/30/1996 12:00:00 AM	8/27/1996
10269	WHITC	5	7/31/1996 12:00:00 AM	8/14/1996
10270	WARTH	1	8/1/1996 12:00:00 AM	8/29/1996

OK Cancel

Conclusion: - This way, Implemented a program for inverted files.