Perform the Extraction Transformation and Loading (ETL) process to construct the database in the Power BI.

itvoŞtep1: Open Power BI; Click on Get Datar-> OData Feedgers.in itvoyagers.in



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

And Click OK

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itvoStep 2: Click on Check Box of Products table and then click on Edit voyagers in

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ITVO	Li 🖽 Regions	<		>	pyagers.in	itvoyagers.in
	Select Related Tables		Load Edit	Cancel		

1) Remove other columns to only display columns of interest

In Query Editor, select the ProductID, ProductName, QuantityPerUnit, and CIS. UnitsInStock columns (use Ctrl+Click to select more than one column, or Shift+Click to select columns that are beside each other).

itvo	Image: second system File Image: second system Close & Apply Close		titled - Po Tran Recen Sources	sform sform Enter Tota	Add Column Add Column Data source settings Data Sources	View Ho Manage Parameters * Parameters	elp Properties Refresh Preview = Manage = Query	or Choose Columns v Manage	Remove Columns + Columns	Keep Remove Rows • Rows • Reduce Rows	Ž↓ Z↓ Sort	Split Grou olumn - By	ı Data ⊐ ∭ı ıp 1.,21 Tra	− ta Type: Any ▼ Use First Row as Headers ▼ Replace Values ansform	Combine	× ^ 3	voyagers.in
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Select Remove Columns > Remove Other Columns from the ribbon, or right-

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After selecting Remove Other Columns only selected four columns are

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b) Select the Data Type drop-down button in the Home ribbon.

c) If not already a Whole Number, select Whole Number for data type it voyages in the drop down (the Data Type: button also displays the data type

for the current selection).

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After clicking on Whole number, you can see the changed Datatype in column header of UnitsInStock. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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After above step, close query editor and click on Yes to save changes. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

Now you can view fields of Products table on right side, check all the fields of

table to get representation in charts form.



3. Expand the Orders table itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in Once You have loaded a data source, you can click on Recent Sources to select desired table (Orders).



After selecting the URL, Navigator window will appear from which you can itvoyagers in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

Click on Edit.

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			10251	VICTE	3	08-07-1996 00:00:00	05-08-199		
	Category_Sales_for_1997		10252	SUPRD	4	09-07-1996 00:00:00	06-08-199		
	Current_Product_Lists		10253	HANAR	3	10-07-1996 00:00:00	24-07-199		
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Query Editor Window will appear

itvo1-Inthe Query View_scroll to the Order_Details column ers in itvoyagers in

2. In the Order_Details column, select the expand icon 🔤 .

3. In the Expand drop-down:

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b. Select ProductID, UnitPrice, and Quantity.

c. Click OK.

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After clicking on OK following screen appears with combined columns

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4. Calculate the line total for each Order_Details row itvoyagers. In itvoyagers. In itvoyagers. In itvoyagers. In itvoyagers. In itvoyagers. In Power BI Desktop lets you to create calculations based on the columns you are importing, so you can enrich the data that you connect to. In this step, you create a Custom Column to calculate the line total for each Order_Details

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Calculate the line total for each Order_Details row:

a) In the Add Column ribbon tab, click Add Custom Column. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in b) In the Custom Column dialog box, in the Custom Column Formula

textbox, enter [Order_Details.UnitPrice] *

[Order_Details.Quantity] by selecting from available columns and click

itvoyagensinert for each column tvoyagers. in itvoyagers. in itvoyagers.in

- c) In the New column name textbox, enter LineTotal.
- d) Click OK.

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itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in 5. Rename and reorder columns in the query

In this step you finish making the model easy to work with when creating

reports, by renaming the final columns and changing their order. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in a) In Query Editor, drag the LineTotal column to the left, after ShipCountry.

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		5	null	44087	Germany	1696	Record	Record	All Properties		
		6		05454-876	Brazil	77	Record	Record			
		7		05454-876	Brazil	1484	Record	Record	▲ APPLIED STEPS		
		8		05454-876	Brazil	252	Record	Record	Source	*	
		9	null	69004	France	100.8	Record	Record	Navigation	*	
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b) Remove the Order_Details. prefix from the Order_Details.ProductID, itvoyagers in itvoyagers in itvoyagers in itvoyagers in Order_Details.UnitPrice and Order_Details.Quantity columns, by double-clicking on each column header, and then deleting that text from the column name.

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itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in 6. Combine the Products and Total Sales queries

Power BI Desktop does not require you to combine queries to report on

them. Instead, you can create relationships between datasets. These itvoyagers in itvoyagers in itvoyagers in itvoyagers in relationships can be created on any column that is common to your datasets.

We have Orders and Products data that share a common 'ProductID' field,

so we need to ensure there's a relationship between them in the model we're using with Power BI Desktop. Simply specify in Power BI Desktop that the columns from each table are related (i.e. columns that have the

same values). Power BI Desktop works out the direction and cardinality of

relationships automatically.

In this task, you confirm that a relationship is established in Power BI

Desktop between the Products and Total Sales queries itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in Step 1: Confirm the relationship between Products and Total Sales 1. First, we need to load the model that we created in Query Editor into Power BI Desktop. From the Home ribbon of Query Editor, select Close & Apply. itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in

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Step 2: Power BI Desktop loads the data from the two queries.



Step 3: Once the data is loaded, select the Manage Relationships button Home ribbon



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	Active	From: Table (Column) Orders (ProductID)	To: Table (Column) Products (ProductID)			
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Step 5: When we attempt to create the relationship, we see that one already

exists! As shown in the Create Relationship dialog (by the shaded columns), the ProductsID fields in each query already have an established relationship.

	ts			.					
Product	ID Quantity	erUnit F	ProductName	UnitsInStock					voyaş
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	2 24 - 12 oz	bottles (Chang	17					
	3 12 - 550 n	l bottles /	Aniseed Syrup	13					
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Step 6: Select Cancel, and then select Relationship view in Power BI OY agers. In

Desktop.

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Step 7: We see the following, which visualizes the relationship between the itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



Step 8: When you double-click the arrow on the line that connects the to itvovagers in itvovagers in itvovagers in itvovagers in itvovagers.in queries, an Edit Relationship dialog appears.

Orders					Ψ.						
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it vo Step 9: No need to make any changes, so we'll just select Cancel to close the sin Edit Relationship dialog.

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