Data Modelling and Analytics with Pivot Table in Excel

Data Model is used for building a model where data from various sources can be combined by creating relationships among the data sources. A Data Model integrates the tables, enabling extensive analysis using PivotTables, Powerers in Pivot, and Power View.

A Data Model is created automatically when you import two or more tables simultaneously from a database. The existing database relationships between those tables is used to create the Data Model in Excel.

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https://download.microsoft.com/download/e/9/8/e981203a-d902-4d63afbf-424027b1e88c/olympicmedals.accdb

itvo**Ştegers. Open.a.new blank Workbook in Exce**h itvoyagers.in itvoyagers.in Step 2 – Click on the DATA tab.

Step 3 – In the Get External Data group, click on the option From Access.



The Select Data Source dialog box opens.

itvo Step 4 - Select the Olympic Medals accountie you downloaded and click agers in Open.

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Step 5 – The Select Table window, displaying all the tables found in the database, appears.

Step 6 – Tables in a database are similar to the tables in Excel.

Check the Enable selection of multiple tables box, and select all the tables.

Then click OK.

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Step 7 – The Import Data window appears. Select the PivotTable Report itvoyegers.in itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in This option imports the tables into Excel and prepares a PivotTable for analyzing the imported tables.

Notice that the checkbox at the bottom of the window - 'Add this data to the Data Model' is selected and disabled.

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Step 8 – The data is imported, and a PivotTable is created using the imported tables.



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Step 1 : In PivotTable Fields, click on the arrow beside the table - Medals to expand it to show the fields in that table. Drag the NOC_CountryRegion field in the Medals table to the COLUMNS area.

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Step 2 – Drag Discipline from the Disciplines table to the ROWS area.

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Step 3 – Filter Discipline to display only five sports: Archery, Diving, Fencing, Figure Skating, and Speed Skating.

This can be done either in PivotTable Fields area, or from the Row Labels itvoyagers.in itvoyagers.in itvoyagers.in itvoyagers.in



Step 4 – In PivotTable Fields, from the Medals table, drag Medal to the VALUES area.

FILTERS area.

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Step 6 – Click the dropdown list button to the right of the Column labels.

Step 7 – Select Value Filters and then select Greater Than... itvoyagers in itvoyagers in itvoyagers in itvoyagers in itvoyagers in

Step 8 – Click OK.



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Step 10 – Click OK.

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The PivotTable displays only those regions, which has more than total 80 medals.



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Relationships let you analyze your collections of the data in Excel, and create interesting and aesthetic reports from the data you import.

Step 1 – Insert a new Worksheet.

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Step 3 – Now you can create relationship between this new table and the other tables that already exist in the Data Model in Excel.

Rename the Sheet1 as Medals and Sheet2 as Sports.



On the Medals sheet, in the PivotTable Fields List, click Alf. A complete list of available tables will be displayed.

The newly added table - Sports will also be displayed.

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Step 4 – Click on Sports. In the expanded list of fields, select Sports. Excel messages you to create a relationship between tables.

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itvoyagers.in Click on CREATE. The Create Relationship dialog box opens. agers.in

Step 6 – To create the relationship, one of the tables must have a column of unique, non repeated, values. In the Disciplines table, SportID column has such values. The table Sports that we have created also has the SportID column. In Table, select Disciplines.

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Step 8 – In Related Table, select Sports.

Step 9 – In Related Column (Primary), SportID gets selected automatically. Click OK.

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Step 10 – The PivotTable is modified to reflect the addition of the new Data Field Sport. Adjust the order of the fields in the Rows area to y gers. maintain the Hierarchy. In this case, Sport should be first and Discipline should be the next, as Discipline will be nested in Sport as a sub-category.

