Low Level Design (LLD)

Global Energy Trade Analysis (1990-2014)

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Problem Statement

One of the most unique power bi projects ideas is the Global Energy Trade Analysis. This project concept includes various topics concerning global energy exchange and production. It addresses several topics, such as the expansion of wind energy, energy consumption as a different basis for comparing national economies, etc.

The resulting dashboard could display total energy statistics on production, commodity exchange, and usage of primary and secondary energy, conventional and non-conventional energy sources, and new and renewable energy sources. For the dashboard, you can use Power BI visualization types such as Bar Charts, Flow Maps, Cards for the overview page, Ribbon Charts, Treemaps, Bar Charts for the energy production and exchange pages, etc.

Do ETL: Extract-Transform-Load the dataset, and find for me some information from this large data. This is form data mining.

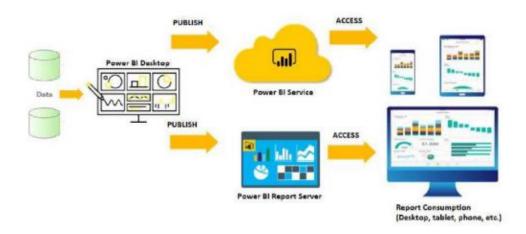
Create Power BI dashboard as well as reports.

Do your own research and come up with your findings.

♣Scope

Low Level Design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code, and performance algorithms. Overall, the data organization may be defined during the requirement analysis and then refined during the data design work. This study demonstrates the how different analysis help out to make better business decisions and help analyse the energy production country wise, which can be lead to better decision making.

Architecture



♣ Data Description

country_or_area: showing all the country in the world.

commodity_transaction: showing the commodity or products with transaction means imports, exports, production, consumptions, etc.

year: showing the year from 1990 to 2014.

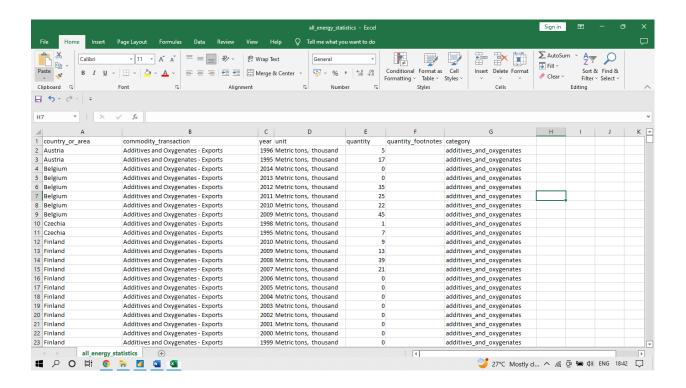
unit: showing the unit (e.g., terajoules, kilowatt, etc.)

quantity: showing the quantity.

quantity_footnotes: nothing here, blanks values are there.

category: showing the product category.

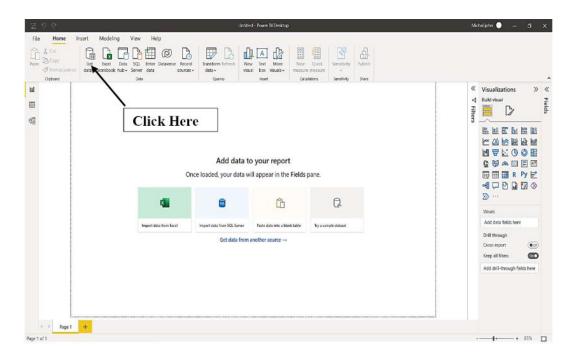
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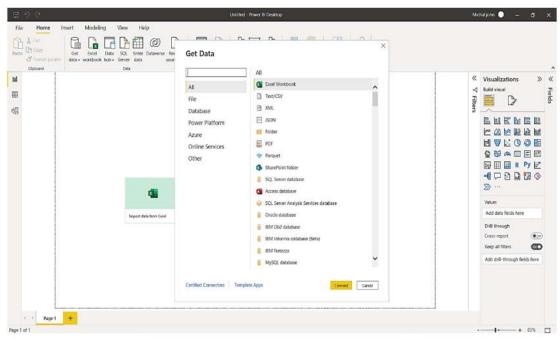


Connect Data to Power BI

First of all, open Power BI Desktop in your desktop. At first screen there is a get data tab click on it then it shows the list of sources then click on that source which you want to connect after connection browser the data then load into Power BI desktop.

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----- Thank You