

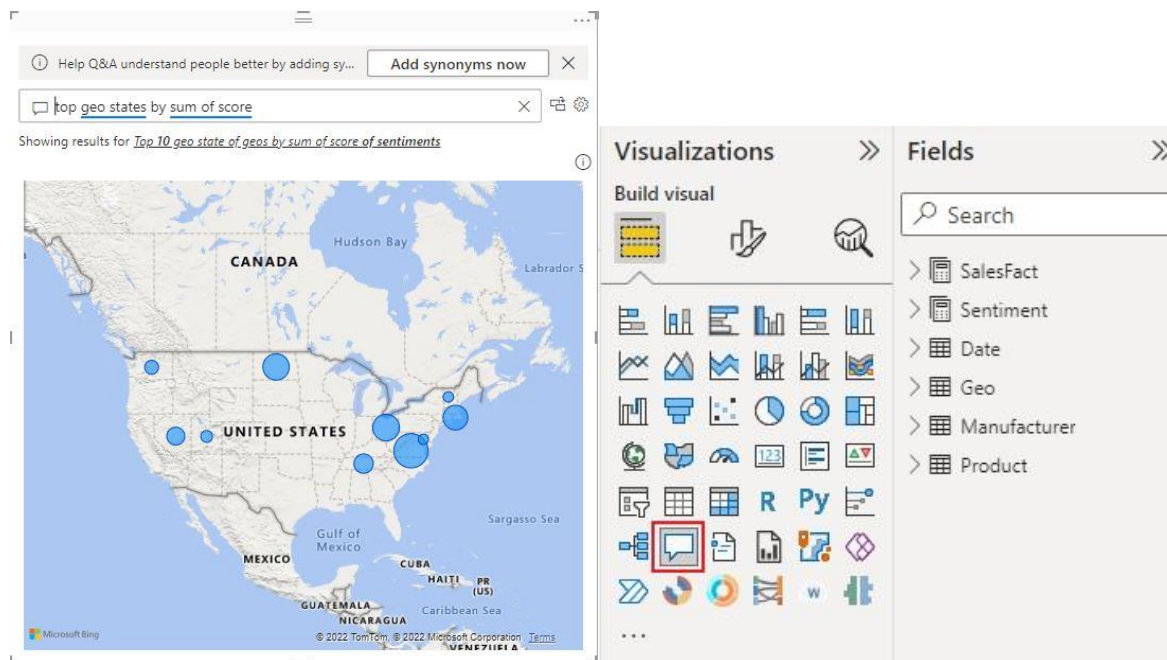
# Power BI Assignment 2

## 1. Explain the advantages of Natural Queries in PowerBi with an example?

**Ans.** A natural language query is input that consists solely of terms or phrases spoken normally or entered as they might be spoken, without any non-language characters, such as the plus symbol or the asterisk, and without any special format or alteration of syntax.

### Advantages of Natural Queries

1. Natural Queries is a unique self-service BI experience
2. Every question is understood by Natural Queries
3. Natural Queries makes it simple to ask complex questions
4. Natural Queries is integrated throughout Yellowfin
5. It's easy to embed Natural Queries into your applications



## 2. Explain Web Front End (WFE) cluster from Power BI Service Architecture?

**Ans.** The Web Front End (WFE) cluster. The WFE cluster manages the initial connection and authentication to the Power BI service. The Back-End cluster. Once authenticated, the Back-End handles all subsequent user interactions.

## 3. Explain Back End cluster from Power BI Service Architecture?

**Ans.** The Back-End cluster determines how authenticated clients interact with the Power BI service. The Back-End cluster manages visualizations, user dashboards, datasets, reports, data storage, data connections, data refresh, and other aspects of interacting with the Power BI service.

#### 4. What ASP.NET component does in Power BI Service Architecture?

**Ans.** ASP.NET is an open-source web framework, created by Microsoft, for building modern web apps and services with .NET. ASP.NET is cross platform and runs on Windows, Linux, macOS, and Docker.

#### 5. Compare Microsoft Excel and PowerBi Desktop on the following features:

Data import  
Data transformation  
Modeling  
Reporting  
Server Deployment  
Convert Models  
Cost  
**Ans.**

Features	Excel	Power BI
Data import	Can Import data from limited file formats	You can import data from various databases and file formats.
Data Transformation	Remove a column, change a data type, or filter rows.	Power BI Service doesn't support to Data Transformation. It is a cloud-based service. You can connect to data sources in the Power BI service
Modeling	Focused of Structured and Simple data models with wide range of feature	Focused on data ingest and building complex data models
Reporting	Simple and less attractive than Power BI	More Beautiful, Attractive, and Interactive
Server Deployment	ExcelServer is a diy tool for building an excel-based information system. It integrates MS Excel and MS SQL Server.	Power BI reports can be Deployed in Cloud
Convert Models	Integrating data from multiple tables, effectively building a relational data source inside the Excel workbook.	Connect, extract, transform, load, model, and visualize data
Cost	Payment Tools	It has free and Payment version

#### 6. List 20 data sources supported by Power Bi desktop.

**Ans.** Excel Workbook, Text/CSV, XML, JSON, SQL Server database, Oracle database, MySQL database, Snowflake, Google BigQuery, BI Connector, MariaDB, Vertica, Google BigQuery, IBM Db2 database, MariaDB, PostgreSQL database, Power BI dataset, Dataverse, Azure SQL Database, GitHub (Beta), Google Analytics, Smartsheet.