**A close up of a logo

Description automatically generated**

Business Intelligence - Lab1

Introduction to Power BI

**Installation**

Power BI is a unified, scalable platform for self-service and enterprise business intelligence (BI). Connect to and visualize any data, and seamlessly infuse the visuals into the apps you use every day.

Download the Power BI tool using the following link:

[Downloads | Microsoft Power BI](https://powerbi.microsoft.com/en-us/downloads/)

# **Documentation**

Open the Power BI documentation using the link below and try to deal with it.

[Power BI documentation - Power BI | Microsoft Learn](https://learn.microsoft.com/en-us/power-bi/)

**Questions:**

1. List three types of files that you can connect to or import data and reports in the power BI.

Excel (.xlsx)

CSV (.csv)

Power BI Desktop (.pbix)

JSON

XML

……………………………………………………………………………………………….

1. What are the datatypes that Power BI supports?

Text, Date, Time, binary.

……………………………………………………………………………………………….

# **Get Data**

[Get data from files for Power BI - Power BI | Microsoft Learn](https://learn.microsoft.com/en-us/power-bi/connect-data/service-get-data-from-files)

Apply the following:

* Get the following datasets in the Power BI (Hint: use the attached file):
  1. Excel (HR-Employee-Attrition)
  2. CSV (Market Car Prices)
  3. Web (wiki Jordan)
  4. Json (employees)
  5. Xml (books)
* Transform the data.

Make sure that all the columns have the correct data type.

**Visualization**

* For the (Market Car Prices) add a Card visualization to visualize the:
  + The Average of the prices.
  + The median of Mileage.
  + The Oldest year.
  + The Maximum price.
  + Count of the regions (without repetition).
  + Find the number of cars by their FuelType category.

1. How many regions do you have? 195
2. How many cars use the hybrid operation? 214

**Filters**

❖ add a slicer to filter the dashboard based on: (year)

1. How many regions do you have in 2004?

148