Business intelligence, strategies used to analyze the data in a firm to make proper decisions.

A picture containing text, screenshot, logo, online advertising

Description automatically generated

BI Tools:

Intuitive dashboard – data driven business – governed data – faster analysis – increased competitive advantage – improved customer experience – organizational efficiency.

Power Query of Power BI like EDA. Which in Tableau is a bit restricted.

It allows us to work with big data. Able to use different data sources. Has the functionality of excel and access as they all are Microsoft products. M language. User friendly, even users with non-technical background can use it comfortably. Cloud based.

Features of Power BI: Customizable dashboard – Q&A question box – help and feedback button – flexible tiles – DAX data analysis function – Interactive reports authoring.

ETL process- Extract Transform Load processes (Power Query).

Data Source 🡪 ETL Processes (Power Query) 🡪 Visualization 🡪 Publish.

The first thing after importing the database is to transform it and make the necessary changes.

The changes we make in POWER QUERY will only show in POWER BI, not in the original database.

Power Query 🡪 En onde olan kisimlardan- cesitli analizler. ETL is the process of Power Query.

Split--> verileri birbirinden ayirdigimiz komut--> urun tarihinde 3 farkli bilgi var

Urun tarih adina tikla--> home ya da transform kisminda split columns-->ya da sag tikla split column-->seceneklerden seciyorsun hangi parametre ile bolecegini soracak--> bydelimiter sec-->enter delimiter cikar--> default space (ilk space gordugun yerden boler)-->custom--> / -->bosluk slash bosluk seklinde sectim.--> uc sutun olustu

(By positions--> indekse gore boler

By delimiter--> bir ayiractan bolme)

Pivot – Unpivot.

Split Column. Pivot Unpivot. Format. Extract. Statistics – Standard – Scientific. Transform Data and Add columns data. Age and Duration. Append Queries. Use First Rows as Heathers. Merge (While merging, do select the columns you want to merge upon, and expand merged column). Add the index column. Add conditional columns. Add columns from Examples. Add Custom Column. Advanced Editor. To edit the previous step, we click on the setting symbol in that certain step from applied step. While running a code to full null values with the average of the other values, just assign the code to a variable, like we did as final variable. After opening the data of the final variable, if it has changed the values, we can see the steps in applied step tabs. At the end, while writing the codes, don’t forget to do inplace=True.

3rd Session:

Relationships (one: Unique values, many: Repeated Values, primary and foreign keys)

M dili arka planda calisan dil, query ekraninda. Biz dax dili kullanarak kendimiz olusturacagiz.

View: Column distribution, profile, quality.

Filter: Deselect null values by (left) clicking. Remove other columns. Visualization Tab.

Pie and Donut Chart, yillara gore satislar.

Treemap, musteri yasadigi bolgeye gore maliyet. We can use text box to take notes, but only in power bi desktop, not in power query.

Line chart: Zaman serileri, ulkernin yillara gore degisen satis toplami.

Creating Hierarchy.

Session 04: Slicer, format visual, dropdown – tile – list. If the slicer is filtered with a numeric value like year and month, then other options will be available in Format visuals 🡪 Slicer Settings 🡪 Options 🡪 Style.