# Components of Power BI:

1) Power Query
2) Power Pivot
3) Power View
4) Power Map
5) Power BI Service
6) Power BI Q&A
7) Data Management Gateway.
8) Data Catalog.

# Building blocks of Power BI:

1) Visualization
2) Datasets
3) Reports
4) Dashboards
5) Tiles.

# Phases:

1) Data Discovery (Data Extraction & Transform)
2) Data Modelling (Relationships, Calculations)
3) Data Visualization (Visualizations, Filters)
4) Sharing (Data Refresh)

Basics:

→ import data from the Get Data tab.

1) Data Discovery & Data Cleansing

  ↳ Get Data   & Transform Data
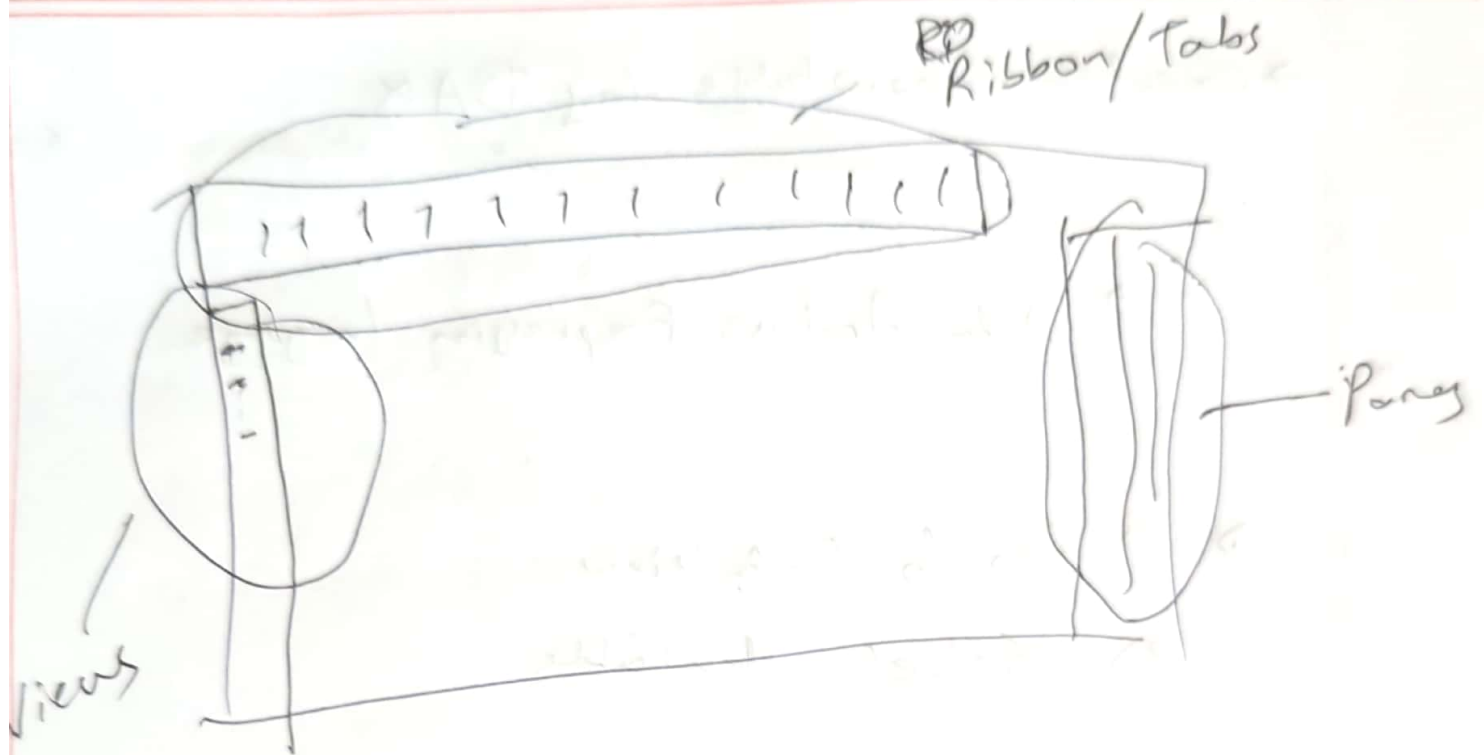
2) Data & Model View [Clipboard er niche baare]

  ↳ Data modelling & Data Mashup.

3) Report view
      ↳ Data visualization

4) Publish
      ↳ Sharing

Ribbon/Tabs

Panes

Views

→ Transforming Data

I) Choose Column

I) Undo or edit korte chaile door e
Applied steps theke X - cross e press korbo.

→ Top left of a column shows the dtype.

→ Merging 2 columns (Add Column → Columnfrom Examples
                                              ↓
                     Ribbone    ←    from All
                     dekhte            columns
                     chale ata
                     nmra likhe dibo

→ Create a new table by DAX

→ Data Analysis Expression language.

↳ 1) Go to Data View

2) Select New Table

3) Write a DAX expression.

Table = Calendar Auto ( )
↑
Name of the
table

ei Calendarauto creates a lot of dates which
are already in our data model.

→ To create a new column

1) Go to Table tools

2) New Column

3) Ro Column = YEAR('Table.name'[column name])

→ month = FORMAT([Date], "mmmm")

mmmm → full month name.

mmm → 3 word er month

mmm - yyyy → @ " " " - year

dddd → Day of the week (Noun)

dd → Day of the month (Numerical)

→ ② Creating the charts

1) Select a type of chart from the Visualization tab.

2) for the axis we drag and drop month column

3) And for the metrics we drag & drop Bank Name to the values.

4) make sure of a table er modd the relationship there.

5) Sort the order (Top right ... of the visualized chart)

6) Sort the column properly.

→ Select the date column (Month)

→ Go to Column tools

→ Select Sort by column

→ Select month number.

→ Modelling     1)   Quick Measure

          2)   New

| Measures | vs | Columns |
|---|---|---|
| — Metrics | | ~ Descriptive |
| — Aggregates | | ~ Categorical |

→ pre build DAX columns

→ You can create a new measure by right clicking on the data tables on the fields tab.

➡ this measure will pop on the right bottom of the screen in the fields tab.

we can use this for future

## Visualizations

→ Edit your visualized chart by clicking on "format your visual" in the Visualization chart.

→ View tab e giye theme select kora jay

customize current theme diye nije theme banate pari

and click save current theme for next usage

→ Tool tip : mouse hover korle jeï Info
         ta dekhay

1) Make a new page

2) Make it hidden

3) go to format report page or the

   visualizations tab.

4) Page Information
     → Allow use as tooltip ON

5) Canvas setting
       → Type → Tooltip

6) Canvas background
      → Colour → Greyish or black or
                      any
      → Transparency → 0%

7) Select the card visual icon on
    visualizations.

→ Drag a measure the field on the new card visualization.

→ Q & A gives Query answer.