Recap:

$\Rightarrow$ K- Means ML Algo.

$\Rightarrow$ Hands On $\rightarrow$ Practical Implementation

Agenda:

$\Rightarrow$ PCA   (30 Min)

$\Rightarrow$ Tableau

PCA (Principle Component Analysis)

→ It comes under Unsupervised ML. Technique.

→ PCA is a dimensional Reduction Technique

eg.   Age | Gender   ⟶ 2 dimensional
                              dataset

Advantage:-

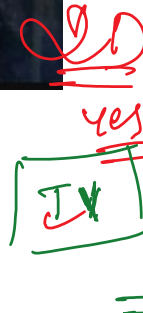(1) Size of dataset will reduced
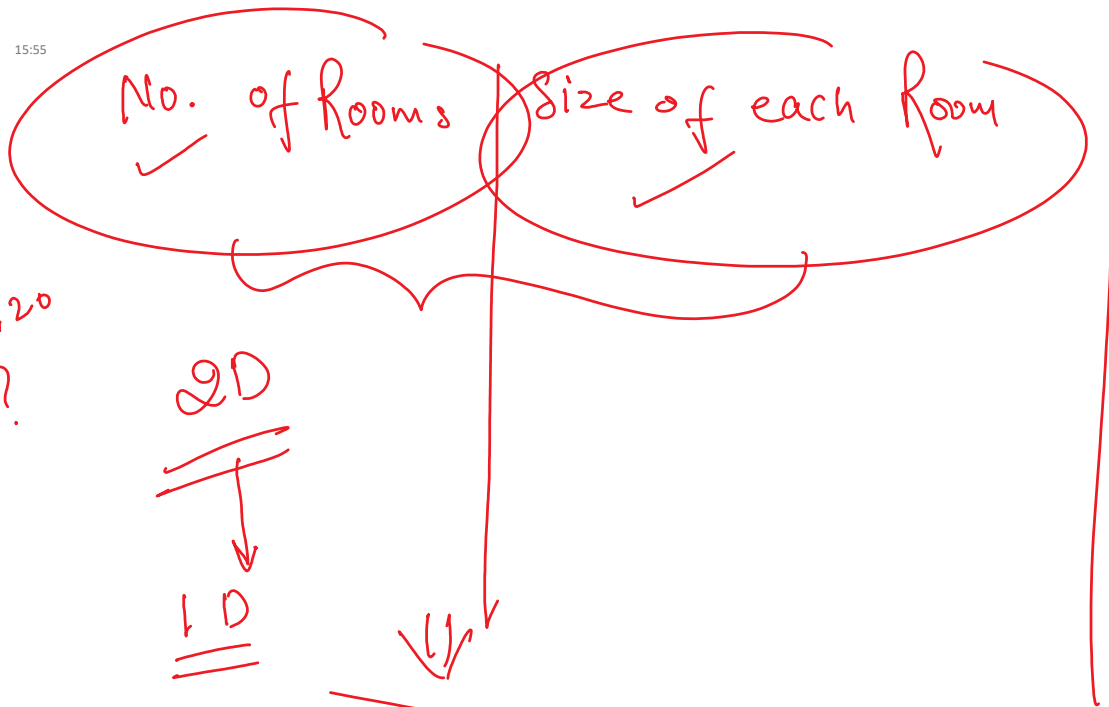
(2) You will be having only relevent column

essenly

SAME

CRICKET

PCA

GROUND

YES

IX

2D

of Virat kohli → Cricker → 6

3D Image → 2D Image

No. of Rooms | Size of each Room | Price

12 * 120
= ?

2D
↓
1D

Size of flat | Price

O/P
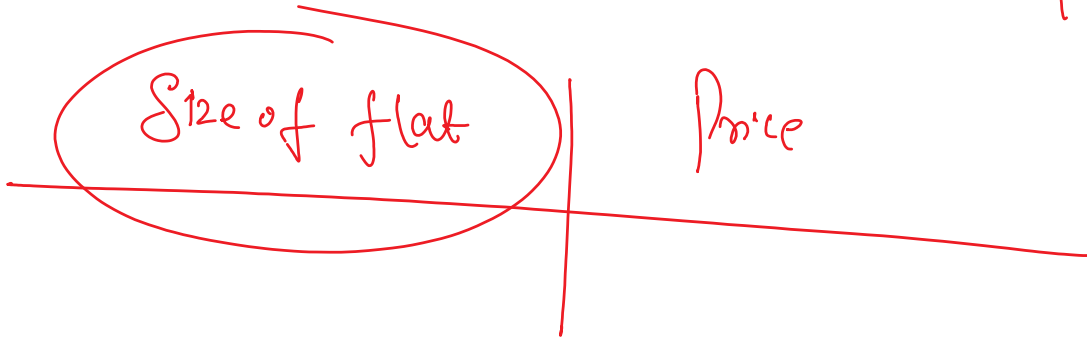
Tableau download link:

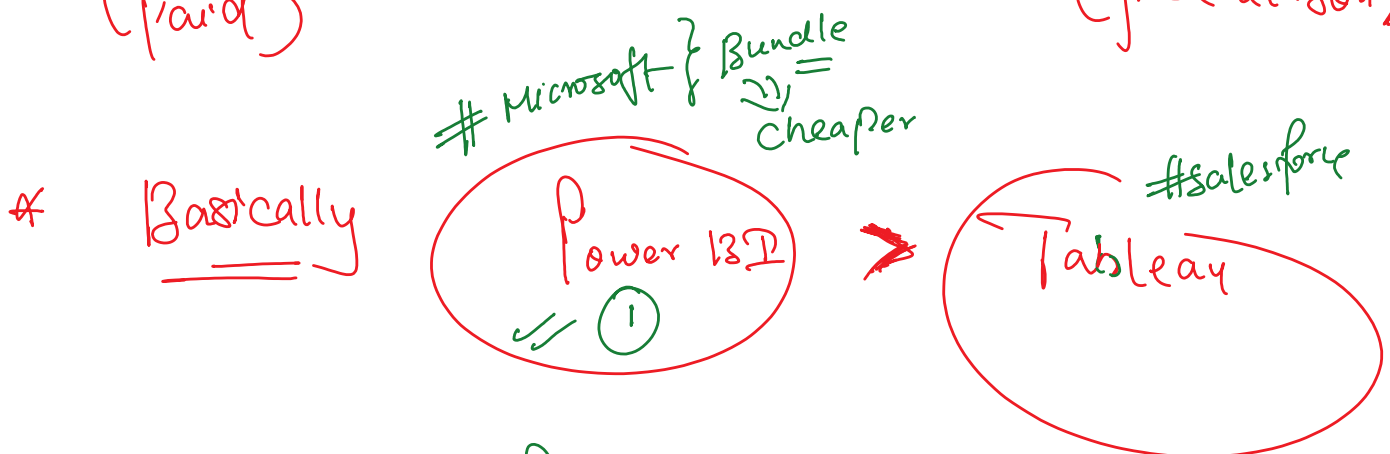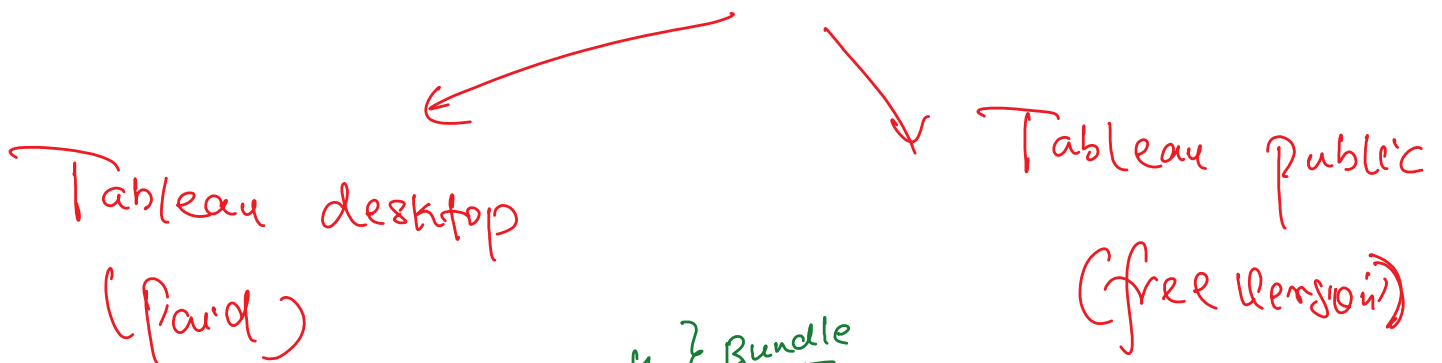https://www.tableau.com/products/public/download

→ fill your detail

→ Click the download

Tableau

* Tableau is a Business Intelligence (B.I.) Tool.

* With Tableau you can create Beautiful chart and dashboard

* Tableau is owned by (Salesforce)

*

Tableau

→ Tableau desktop (Paid)

→ Tableau public (free version)

* Basically

Microsoft } Bundle
)) = cheaper

(Power BI) ✓✓ ① > #salesforce (Tableau)

Integration of Power BI with other MS service is quite ~~easy~~ easy.

-1) Power [B]I is Simple > Tableau

Connections — Add

SampleSupers...91212-222546
Microsoft Excel

Sheets

- ☐ Use Data Interpreter
  Data Interpreter might be able to clean your Microsoft Excel workbook.
- Orders
- People
- Returns
- Orders
- People
- Returns
- New Union
- New Table Extension

Orders

Need more data?

Drag tables here to relate them. Learn more

Field → Columns

Records → Row

Orders

Name
Orders

Fields

Type	Field Name	Physical Table	Remote Fie...
#	Row ID	Orders	Row ID
Abc	Order ID	Orders	Order ID

21 fields 9994 rows

9994 → rows

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2018-152156	08-11-2018	11-11-2018	Second Class	CG-12520	Claire Gute
2	CA-2018-152156	08-11-2018	11-11-2018	Second Class	CG-12520	Claire Gute
3	CA-2018-138688	12-06-2018	16-06-2018	Second Class	DV-13045	Darrin Van Huff
4	US-2017-108966	11-10-2017	18-10-2017	Standard Class	SO-20335	Sean O'Donnell
5	US-2017-108966	11-10-2017	18-10-2017	Standard Class	SO-20335	Sean O'Donnell

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File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data | Analytics

Orders (SampleSuperstor...

Search

Tables

- Abc Category
- ⊕ City
- ⊕ Country/Region
- Abc Customer ID
- Abc Customer Name
- ▭ Order Date
- Abc Order ID
- ⊕ Postal Code
- Abc Product ID
- Abc Product Name
- Abc Region
- ＊ Row ID
- Abc Segment
- ▭ Ship Date
- Abc Ship Mode
- ⊕ State
- Abc Sub-Category
- Abc Measure Names
- ＃ Discount
- ＃ Profit
- ＃ Quantity
- ＃ Sales
- ⊕ Latitude (generated)
- ⊕ Longitude (generated)
- ＃ Orders (Count)
- ＃ Measure Values

Pages

Filters

Marks

☐ Automatic

Color Size Text
Detail Tooltip

Columns

Rows

Sheet 1

Drop field here

Drop field here

Drop field here

WORKAREA

Select or drag data
Use the Shift or Ctrl key to select multiple fields

Data Source Sheet 1