Data Visualization

-> Graphical representation of any information or data is known as Date visualization.

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- -) This holps in segregating the data inan efficient manner by using various types of visuals such as graphs, maps, charts, maps, and visualization tools.
- In addition to this, with the help of a date visualization tool, the data can be presented in a very unique and understandable manner

Data visualization tools

Data visualization tools are software Platforms that Provide information in a visual format such as graph, chart, etc., to make it easily understandable and usable

- -) Data visualization tools are so Popular as they allow analystis and statisticians to create visual data models easily.
 - 7661 such Tools are
 - =) Tableau
 - =) Polopy By . Microsoft Power BI
 - =) LOOKer
 - =) Zoho Analytics

Tableau: - or find who willows no I am

Tableau is a data visualization tool that Can be used by date analysts, scientists, statisticians, etc.., to visualize the data and -> Dec1011

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get a clear opinion based on the data anolysis, did land plant single

-> Tablequ is very femous as it on take in data and Produce the required data visualisation output in a very short time.

- And it Provide highest level of security with guranter to hardle security assuses.

Microsoft Power BI

Microsoft Power BI is a Data visualization Platform focused on creating a data-driven business intelligence culture in all companies.

-> 4+ is also used for analystis tools of analyze, aggregate and share data in a meaning ful fashion-

Types of data visualization:-

- -> Charts
- -> Tabeles
- -> Graphs
- -> Maps
- -) Dashboards ell pengol raik on ali blomar

Charts:-

Information presented in a tabular, graphial form with data displayed along two axes. There are different types of charts.

1. Bar chart &

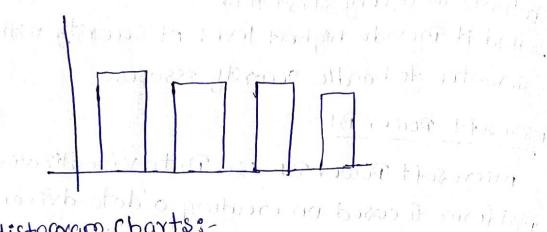
2. Histogram charts

3. Pie chart

4. Line Chart

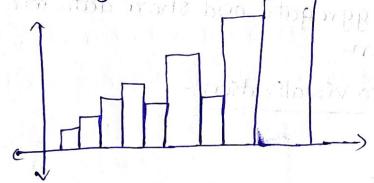
Barchart:

At presents categorical data with rectangle -lar bars with heights or lengths Proportional to the values that they represent.



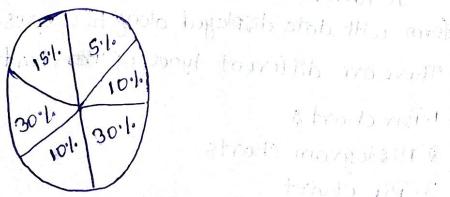
Histogram Charts:-

A Histogram Charts 95 a graph that shows the frequency of numerical data using rectargles.



Piechart:-

A Pie chart, scanotking sometimes Called a circle chart; is a way of summarizing a set of mornial data for) displaying the different values of a given variables.



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Line chart: - 2 " of the land of the try of the about

A Line chart is a type of chart used to show information that changes over time.



Scatter Plot

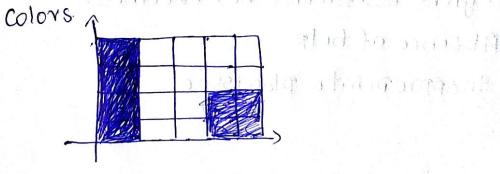
A scatter plot uses dots to represent values for two different numeric variables.

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Heat Map: -

A Heat map is a two-dimensional representation of data in which values are represented by enabled the towns is a sould be in

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Applications of Data Visualizations;

- 1. Health care Andustries
- a. military
- 3. Finance Industries.
- 4. Marketing
- 5. Real estate business
- 6. Food delivery apps
- 7. Education
- 8. E-Commerce who was bolg rabbas
- q. Business Intelligence

Advantages:-

- 1. Simple sharing of Data
- 2. Adjustment of informations.
- 3. Dis covering relations blu occasions.
- 4. A superior method.
- g. Better aggreement.

Disadvantages:-

1. It gives assessment not exactness.

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- 2. Absence of help.
- 3. Inappropriate Planissue.

Business analytics: Leaving School English Spice Squire

Data wate wouse:

- · Data ware nouse is a sulational database.
- . Data ware house is a data management system. that stores large amount of data.

- The state of the state !

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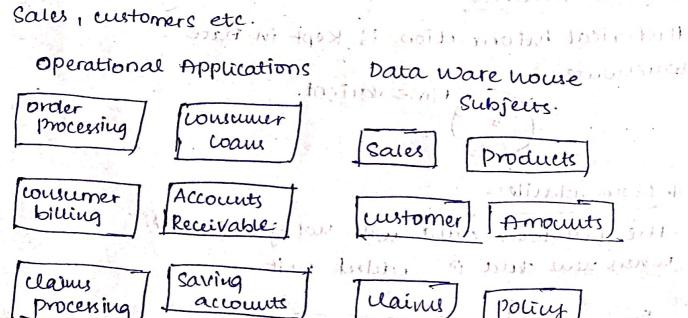
. It includes historical data decived from transition data from single e multiple sources.

character cfice:-

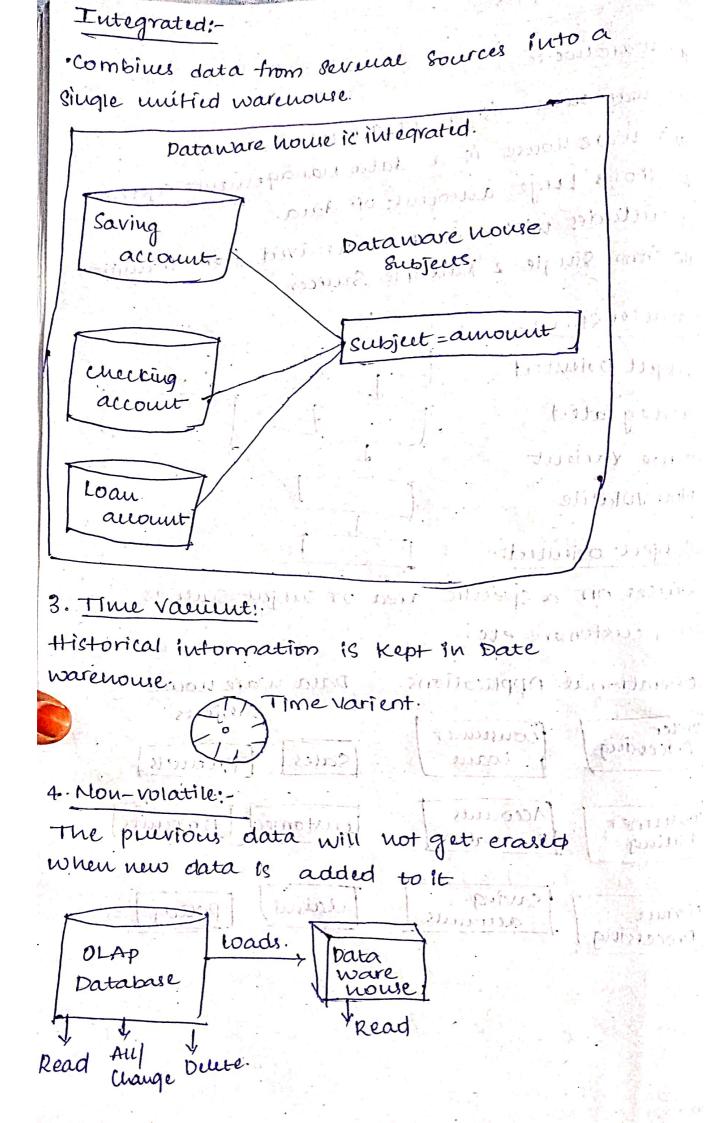
- 1. Subject oriented
- 2. Integrated
- 3. Time varient
- 4. Nou volatile.

-> Subject oriented:

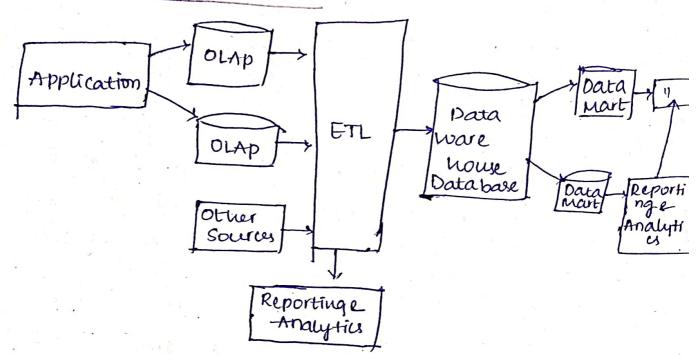
· Focuses on a specific area or subject such as



value.



Data ware name components:



Advantage:

- 1. Fast rusponses.
- 2. High Quality of data.
- 3. Integrated data.
- 4. managed services.

Disadvantages:

- 1. Security issues.
- 2. New user needs
- 3. maintanance feer