2. What screen sizes are currently available, and which are the most frequent?

- **Data needed:**
    - screen_size (or rounded screensize_inch)
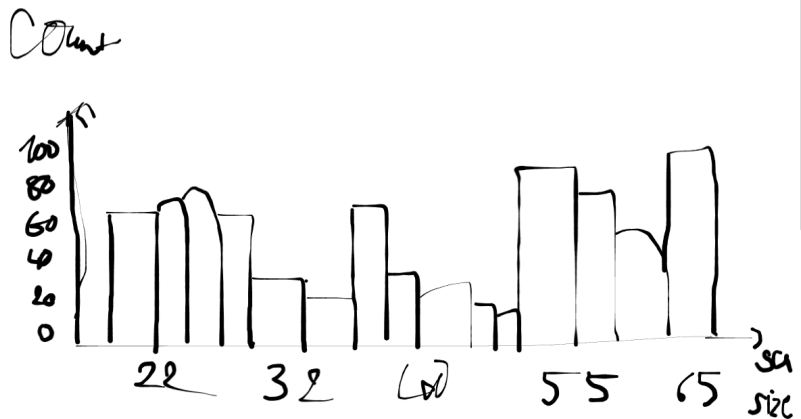   - Count of Model_No
- **Chart type:**
    - Histogram / Bar chart
- **Sketch of chart:**
    - X-axis: Screen size categories (22, 32, 40, 50, 55, 65, 75, etc.)
    - Y-axis: Count of models
    - Bars sorted by increasing size
- **Data table sketch:**

Scr-size	Count
22	69
32	36
40	37
55	96
65	99

3. Which brands have the greatest number of different models?

- **Data needed:**
  - Brand
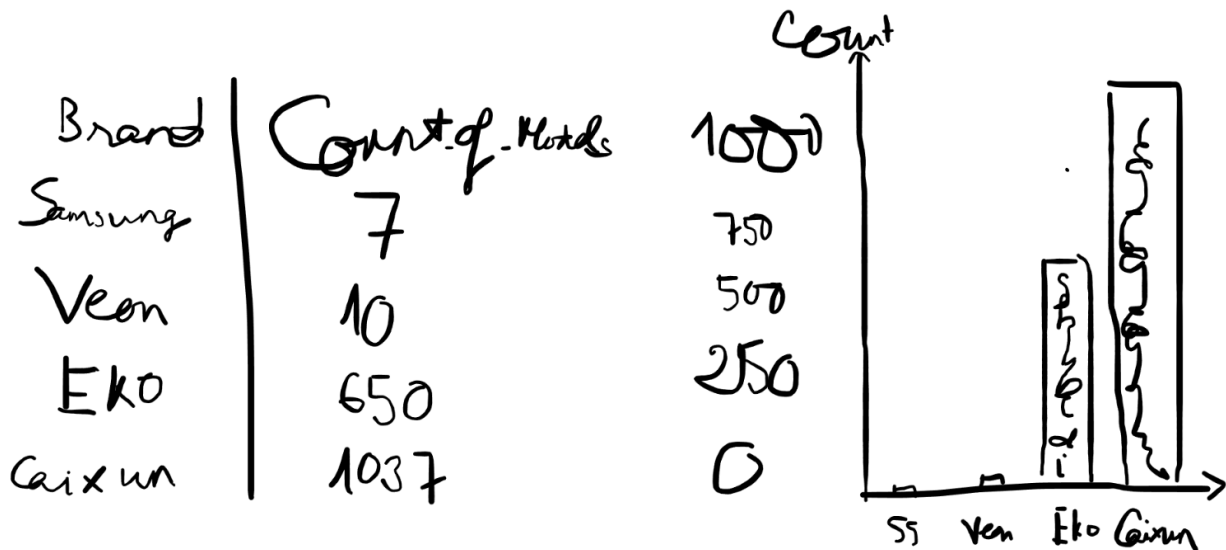 - Count of distinct Model_No
- **Chart type:**
  - Bar chart
- **Sketch of chart:**
  - Y-axis: Brand names (Samsung, LG, Sony, Hisense, etc.)
  - X-axis: Number of models
  - Horizontal bars sorted descending
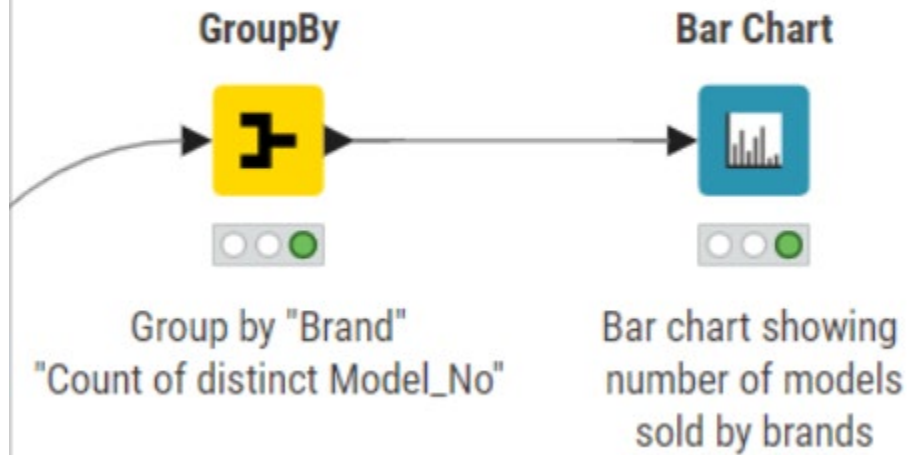- **Data table sketch:**

Brand	Count of Models
Samsung	7
Veon	10
Eko	650
Caixun	1037

| 1: Group table | Flow Variables |

Rows: 94 | Columns: 3

Table | Statistics

#	RowID	Brand_Reg (String)	Unique count*(Model_No) (Number (Integer))
1	Row0	AIWA	29
2	Row1	AKAI	28
3	Row2	AOA	5
4	Row3	Altius	5

Question 3

GroupBy

Group by "Brand"
"Count of distinct Model_No"

Bar Chart

Bar chart showing
number of models
sold by brands
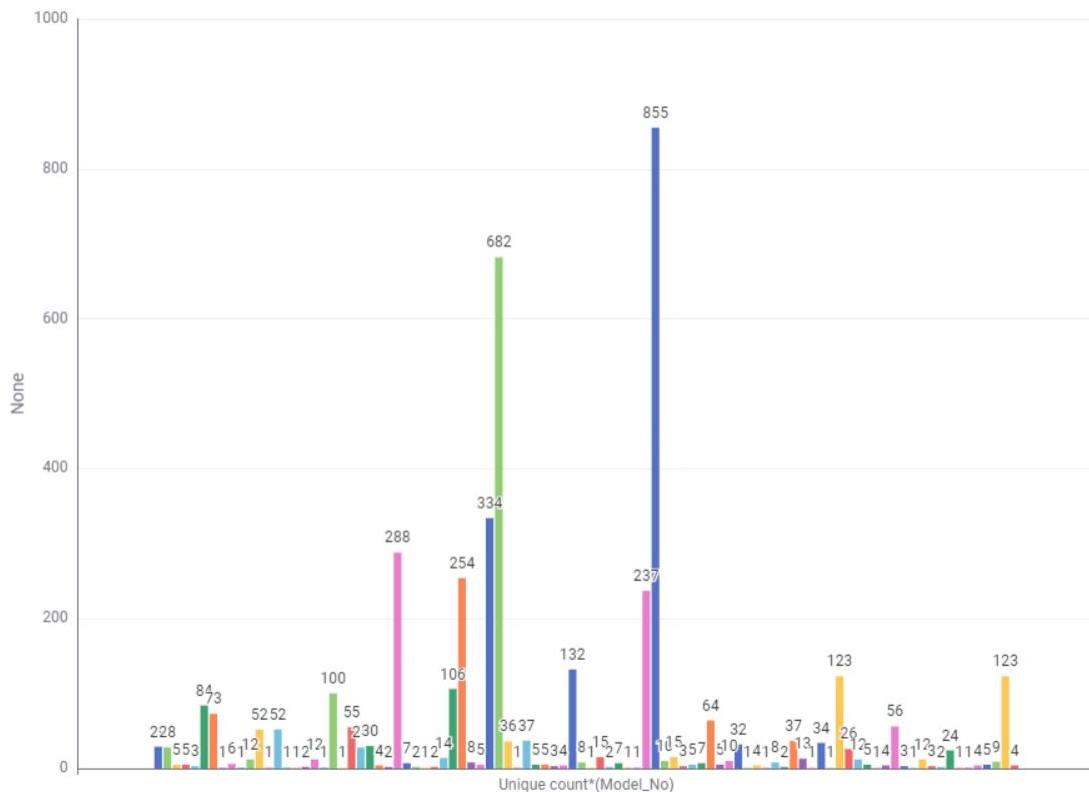
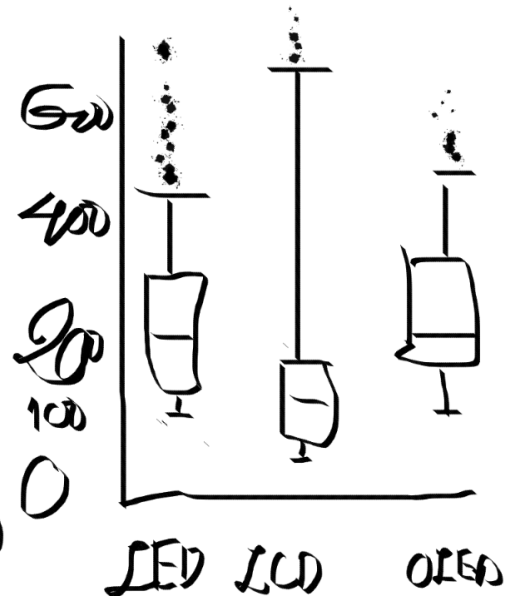**Bar Chart**

4. Which type of screen technology consumes the least amount of power?

- **Data needed:**

  o Screen_Tech

  o Average Avg_mode_power

- **Chart type:**

  o Box plot / Bar chart.

- **Sketch of chart:**

  o X-axis: Screen technologies

  o Y-axis: Avg power consumption (watts)

  o Bars showing mean power

- **Data table sketch:**

▶ 1: Group table   ☑ Flow Variables
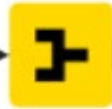
Rows: 1514 | Columns: 2   Table ⬜ Statistics ⬜

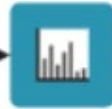| #	RowID	Screen_Tech T String		Avg_mode_power Number (Float)
1	Row0	LCD		13.4
2	Row1	LCD		14.89
3	Row2	LCD		14.9
4	Row3	LCD		15.1

Question 4

GroupBy

Group by "Screen_Tech" and
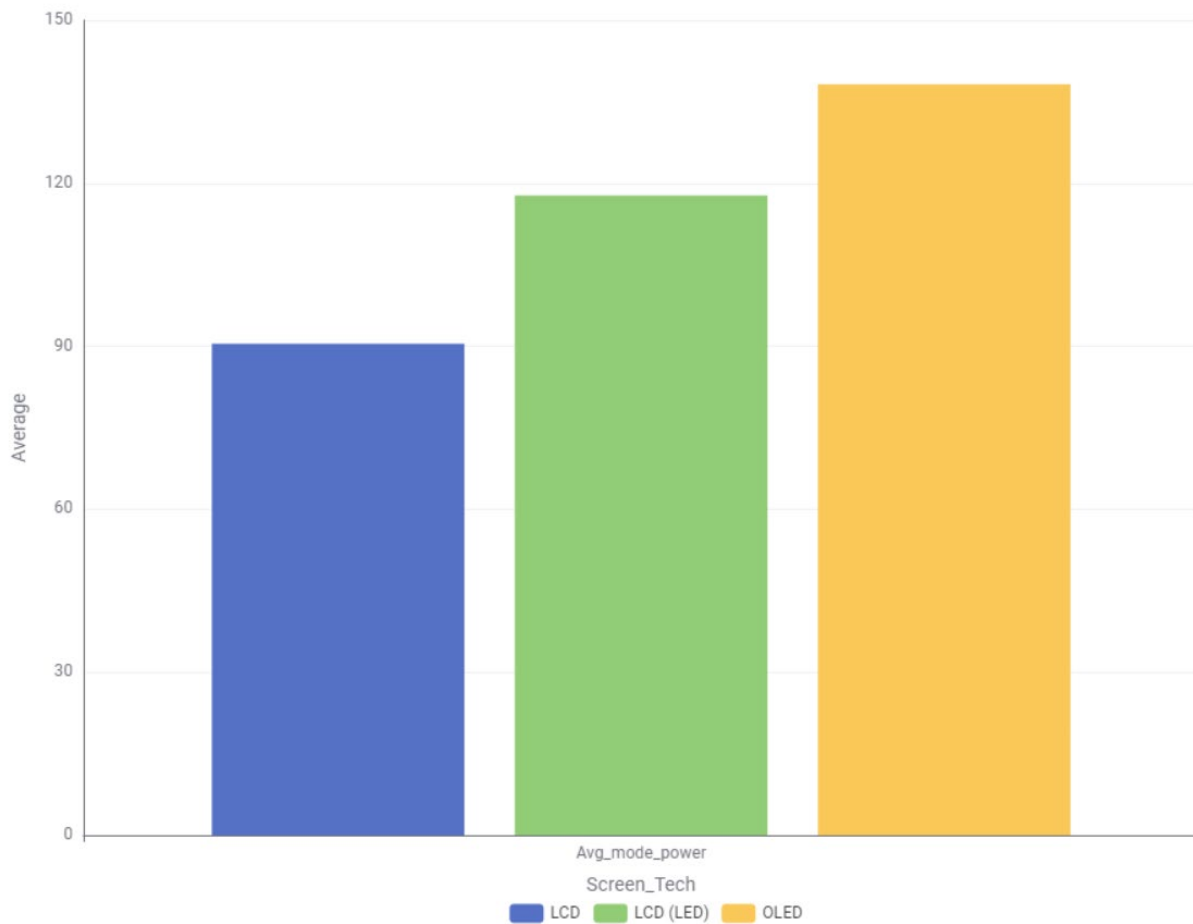"Average Avg_mode_power"

Bar Chart

Bar showing
avg power consumption

Box Plot
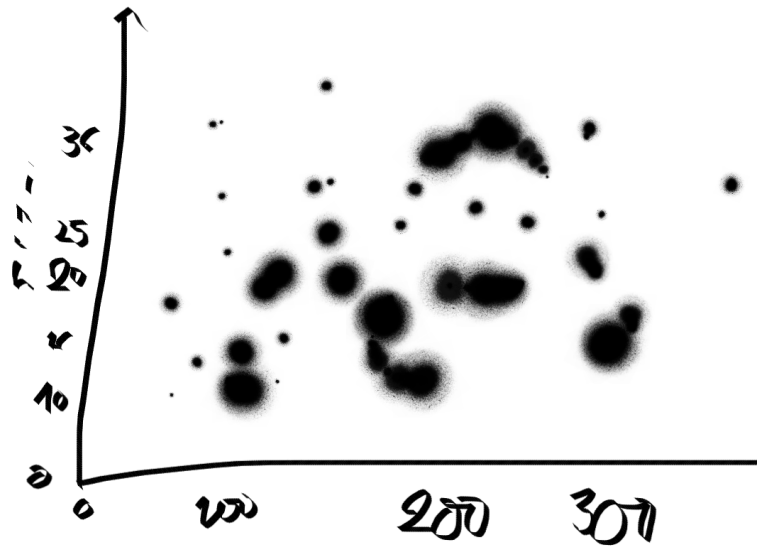

Bar Chart

5. What is the relationship between screen size and power use?

- **Data needed:**
  - screensize_inch (numeric)
  - Avg_mode_power

- **Chart type:**
  - Scatter plot

- **Sketch of chart:**
  - X-axis: Screen size in inches
  - Y-axis: Power use (kWh)
  - Points scattered, upward trend visible

- **Data table sketch:**

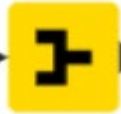
► 1: Group table	🗹 Flow Variables		

Rows: 1723 | Columns: 2   Table 🗖 Statistics 🗖

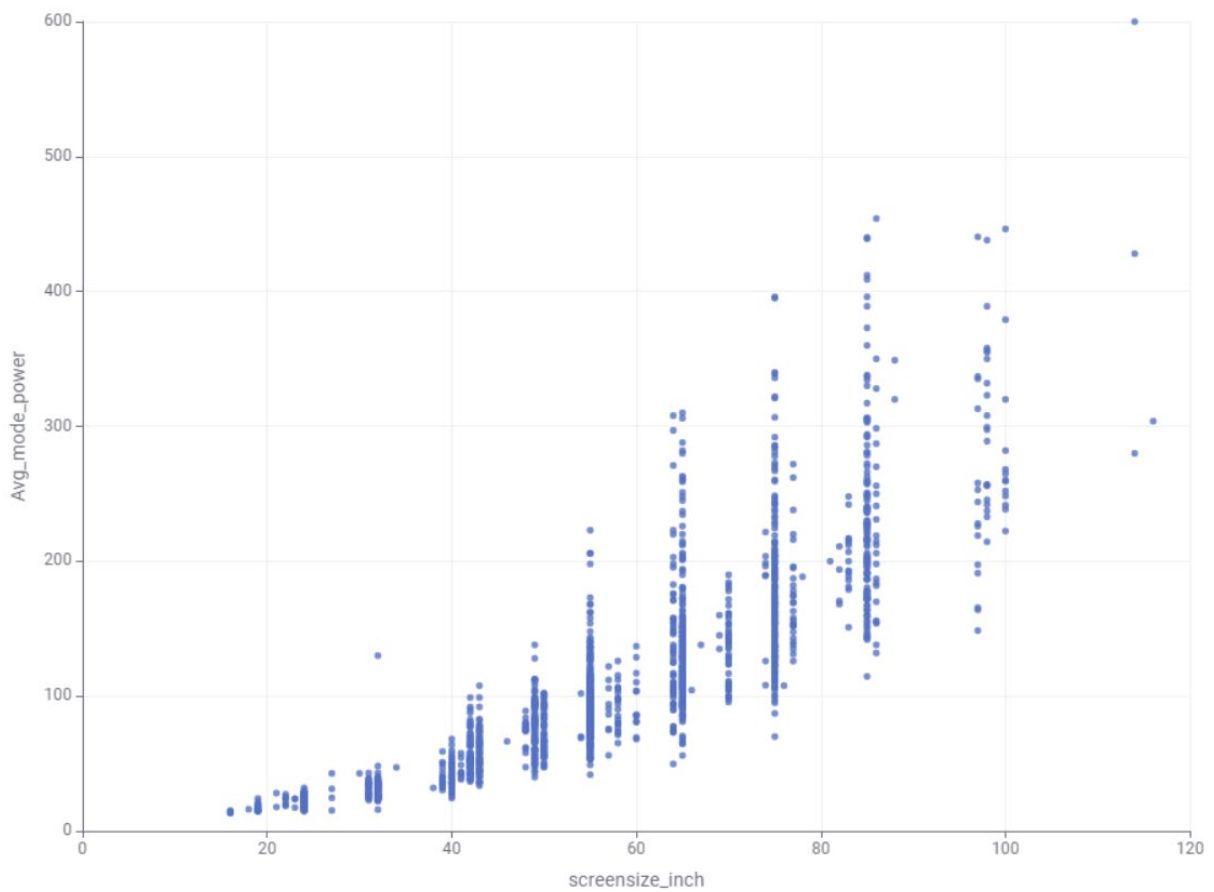| #	RowID	Avg_mode_power Number (Float)	screensize_inch Number (Float)
1	Row0	13.3	16
2	Row1	13.4	16
3	Row2	14.61	19
4	Row3	14.7	16

Question 5

GroupBy

Scatter Plot
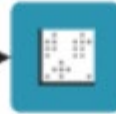
Group by
"screensize_inch"
and "Avg_mode_power"

Scatter Plot

6. What is the relationship between star rating and screen size?

- **Data needed:**

  o   Star (or Star Rating Index)

  o   screensize_inch (or category)

- **Chart type:**

  o   **Box plot** → shows distribution of screen sizes for each star rating.

- **Sketch of chart:**

  o   X-axis: Star rating (1★ to 6★)

  o   Y-axis: Screen size (inches)

  o   Boxes or bars per star rating

- **Data table sketch:**

SR	Screen - the inch
1.0	2
2.0	4
6.0	7
7.0	10
9.0	36

Box Plot

Bar chart

7. Are there differences in power consumption between brands?

- **Data needed:**
    - Brand
    - Average Avg_mode_power

- **Chart type:**
    - **Bar chart (mean)** → compare average power by brand.
    - **Box plot** if you want to show variation.

- **Sketch of chart:**
    - X-axis: Brand
    - Y-axis: Power consumption (watts)
    - Bars or boxes