Charts

Bar-Charts

Day	Downtown	Suburban	Rural
Monday	230	150	60
Tuesday	210	165	70
Wednesday	250	160	65
Thursday	240	170	60
Friday	280	180	75
Saturday	320	190	80
Sunday	300	175	85

City Bike Rentals Overview
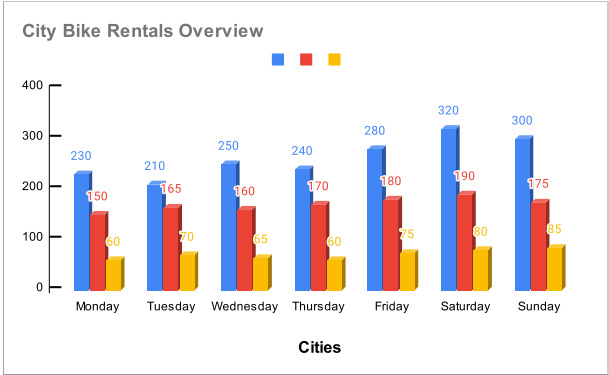
which city zone has the highest overall bike rentals for the weeks?

Downtown

**On Which Day is bike rental popularity at its peak accross all zones?**

Saturday

Is there a noticeable trend in bike rental throughout the week?

Bike rentals increase steadily from Monday to Saturday, peaking on Saturday, and then slightly decreasing on Sunday.

Pie-Chart

Product Category	Total Sales
Electronics	25000
Apparel	15000
Home & kitchen	20000
Beauty and Health	10000
Books	5000

Total Sales

● Electronics   ● Apparel   ● Home & kitchen   ● Beauty and Health   ● Books

6.7%

13.3%

33.3%

26.7%

20.0%
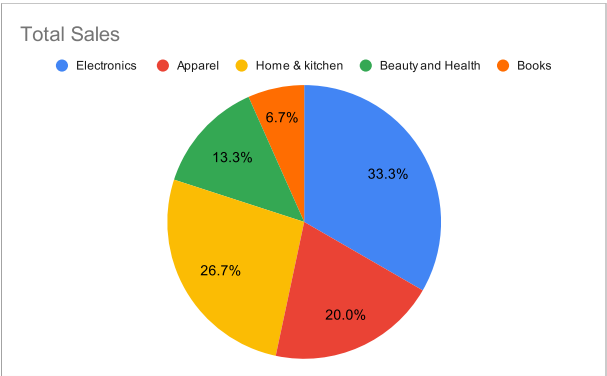
Which Product category contributes the most to the total sales?

Electronics

How significant is the sales contribution of the books category compared to electronics?
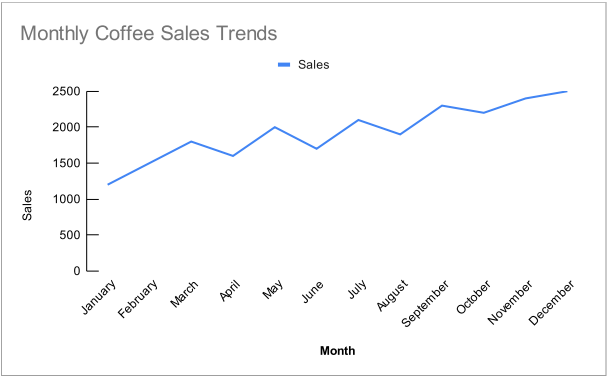
6.70%

Are Apparel And Beauty & health categories combined comarable to electronic in terms of sales contribution?

33.30%

Line- Chart

Month	Sales
January	1200
February	1500
March	1800
April	1600
May	2000
June	1700
July	2100
August	1900
September	2300
October	2200
November	2400
December	2500

Monthly Coffee Sales Trends

In Which month did the coffee shop see the highest sales?

The coffee shop saw the highest sales in December, with sales of 2500.

Identify any patterns or trends. Is there a specific time of year when sales peak or decline?

The coffee shop sees steady growth throughout the year, with peaks in the last quarter (October to December) and a slight decline mid-year (April to June).
This pattern might be influenced by seasonal factors such as holidays or weather changes.

How to the sales in January compare to the sales in december?

The sales in January were 1200, while the sales in December were 2500.
This shows that the sales in December were more than double the sales in January, specifically representing a 108.3% increase.

Histogram

Employee ID	Training Hour
11	14
12	22
13	9
14	27
15	18
16	11
17	24
18	16
19	5
20	20
21	10
22	15
23	8
24	20
25	12
26	30
27	25
28	18
29	5
30	20

Training Hour vs Employee ID
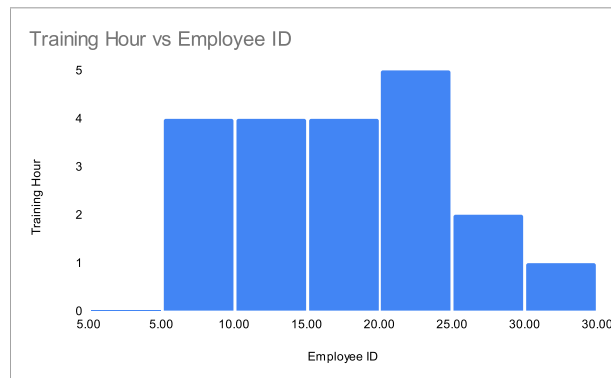
What is the most common range of trining hours completed by employees?

The most common range of training hours is 0-10 hours

Are there any outliers, and what do they suggest about employee training engagement?

Low outliers indicate a need for better engagement,
while high outliers show excellent dedication to training
boosting everyone's participation can drive great results!

How could the training program be adjusted based on the distribution of training hours?

The training program can better cater to the diverse needs of employees and enhance overall participation and engagement.

Combo Chart

Month	Total Sales	Profit Margin(%)
January	12000	10
February	15000	12
March	18000	15
April	16000	11
May	20000	10
June	17000	14
July	21000	16
August	19000	15
September	23000	17
October	22000	13
November	24000	18
December	25000	20

Total Sales and Profit Margin(%)
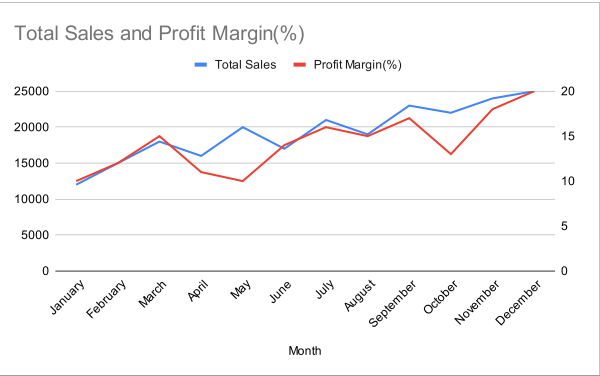
Does a higher sales month always correspond to a higher profit margin?

The highest profit margin (20%) occurs in December, which also has the highest sales (25000)

Identify any months where sales increased but profit margin decreased, and speculate why this might have happend?

In May and October, sales increased while profit margins decreased, likely due to promotional discounts and increased competition, respectively, impacting overall profitability.

How does seasonality appear to affect sales and profit margins?

seasonality influences both sales and profit margins, with a strong end-of-year boost in sales often accompanied by improved profit margins, contrasting with potential margin pressures in other months due to competitive or promotional pricing strategies.