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Successfully connected to Gemini!

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# LIDA Tasks

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gemini-1.5-flash ▼

Upload a data file in .csv format:

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 Apple 2009-2024.csv 2.5KB 

×

Successfully uploaded a CSV file with 16 rows of data.

	year	EBITDA (millions)	Revenue (millions)	Gross Profit (millions)	Op Income (millions)	Net Income (millions)	E
0	2,024	\$134,661	\$391,035	\$180,683	\$123,216	\$93,736	\$
1	2,023	\$125,820	\$383,285	\$169,148	\$114,301	\$96,995	\$
2	2,022	\$130,541	\$394,328	\$170,782	\$119,437	\$99,803	\$
3	2,021	\$120,233	\$365,817	\$152,836	\$108,949	\$94,680	\$
4	2,020	\$77,344	\$274,515	\$104,956	\$66,288	\$57,411	\$

No missing or duplicate values found in the data.

✱ **Insight 0:**


A visualization goal

```
rationale str "This visualization uses 'year', 'Revenue (millions)', 'EBITDA (millions)', 'Net Income (millions)', and 'Gross Profit (millions)' to identify trends and correlations between key financial metrics over time. It helps understand the company's profitability and growth trajectory."
```

The chart displays four financial metrics over a 15-year period. Revenue (blue line) starts at approximately 40,000 million in 2010 and reaches nearly 400,000 million by 2024. EBITDA (orange line) grows from about 15,000 million to 140,000 million. Net Income (green line) increases from around 10,000 million to 95,000 million. Gross Profit (red line) rises from approximately 20,000 million to 180,000 million. All metrics show a general upward trend with some fluctuations, particularly a sharp increase in Revenue starting around 2021.

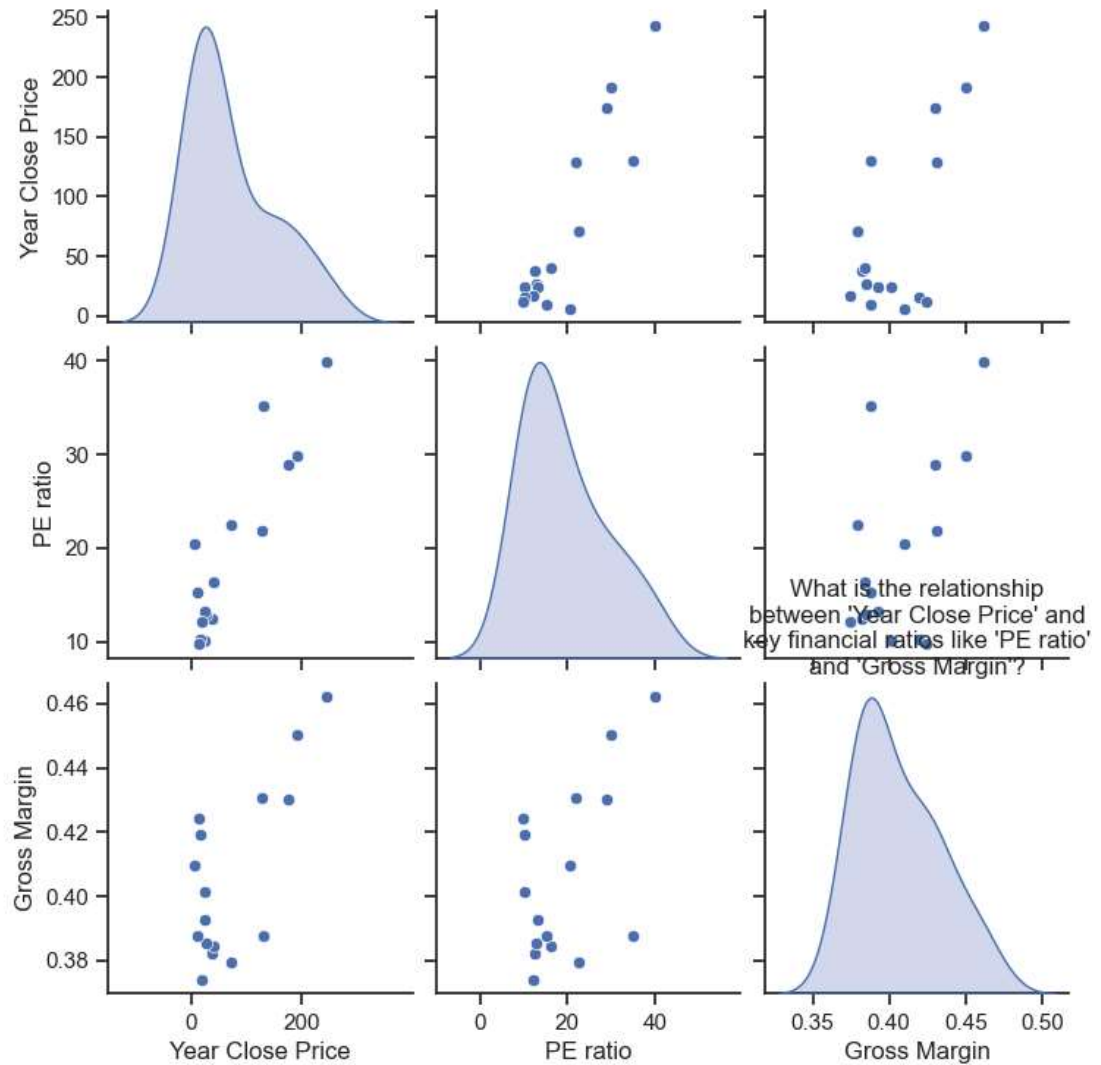
Year	Revenue (millions)	EBITDA (millions)	Net Income (millions)	Gross Profit (millions)
2010	40,000	15,000	10,000	20,000
2011	65,000	20,000	12,000	25,000
2012	155,000	55,000	40,000	65,000
2013	170,000	50,000	35,000	60,000
2014	180,000	60,000	40,000	65,000
2015	235,000	80,000	50,000	95,000
2016	215,000	65,000	45,000	85,000
2017	230,000	68,000	48,000	90,000
2018	265,000	80,000	58,000	100,000
2019	260,000	72,000	52,000	98,000
2020	275,000	75,000	55,000	105,000
2021	365,000	120,000	95,000	150,000
2022	395,000	130,000	100,000	170,000
2023	380,000	125,000	98,000	168,000
2024	390,000	135,000	95,000	180,000

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✳ Insight 1:

<pre>main() Goal Goal(question="What is the relationship between 'Year Close Price' and key financial ratios like 'PE ratio' and 'Gross Margin'?", visualization="Scatter plot matrix showing the correlation between 'Year Close Price', 'PE ratio', and (after converting to numeric) 'Gross Margin'.", rationale="This use...</pre>	
A visualization goal	
index <code>int</code>	1
question <code>str</code>	"What is the relationship between 'Year Close Price' and key financial ratios like 'PE ratio' and 'Gross Margin'?"
rationale <code>str</code>	"This uses 'Year Close Price', 'PE ratio', and 'Gross Margin' to explore the relationship between market valuation ('Year Close Price' and 'PE ratio') and profitability ('Gross Margin'). A strong correlation could indicate market efficiency or other factors influencing stock price."
visualization <code>str</code>	"Scatter plot matrix showing the correlation between 'Year Close Price', 'PE ratio', and (after converting to numeric) 'Gross Margin'."



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## ✳ Insight 2:

```
main() Goal Goal(question="How has the company's leverage (Long Term Debt to Total Assets) changed over time, and how does it relate to Net Income?", visualization="Combined chart: Line chart of 'Long Term Debt (millions)'\nand 'Total Assets (millions)'\nover 'year', and a secondary y-axis showing a line chart of...
```

A visualization goal

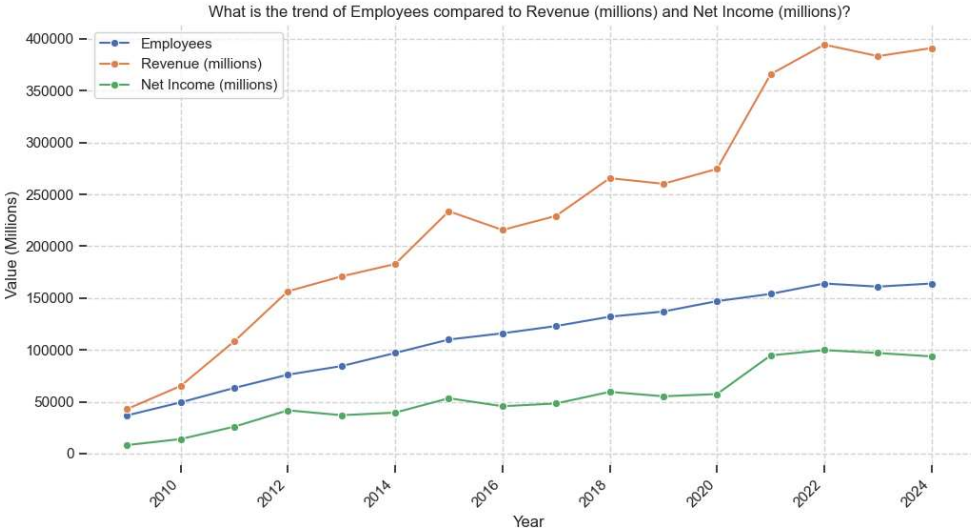
index <code>int</code>	2
question <code>str</code>	"How has the company's leverage (Long Term Debt to Total Assets) changed over time, and how does it relate to Net Income?"
rationale <code>str</code>	"This visualization uses 'year', 'Long Term Debt (millions)', 'Total Assets (millions)', and 'Net Income (millions)' to assess the company's financial risk. Changes in leverage alongside Net Income provide insights into the company's debt management strategy and its impact on profitability."
visualization <code>str</code>	"Combined chart: Line chart of 'Long Term Debt (millions)'\nand 'Total Assets (millions)'\nover 'year', and a secondary y-axis showing a line chart of 'Net Income (millions)'.."

### ✳ Insight 3:

```
main() Goal Goal(question="What is the trend of 'Employees' compared to 'Revenue (millions)'\nand 'Net Income (millions)'\n?", visualization="Line chart with 'year' on the x-axis and 'Employees', 'Revenue (millions)',\nand 'Net Income (millions)'\non the y-axis. Each should be a separate line.", rationale="Analyzin...
```

A visualization goal

index <code>int</code>	3
question <code>str</code>	"What is the trend of 'Employees' compared to 'Revenue (millions)'\nand 'Net Income (millions)'\n?"
rationale <code>str</code>	"Analyzing 'year', 'Employees', 'Revenue (millions)', and 'Net Income (millions)'\nhelps determine the efficiency of the workforce. A comparison allows us to see if revenue and profit growth are keeping pace with employee growth, suggesting efficiency or potential overstaffing."
visualization <code>str</code>	"Line chart with 'year' on the x-axis and 'Employees', 'Revenue (millions)',\nand 'Net Income (millions)'\non the y-axis. Each should be a separate line."

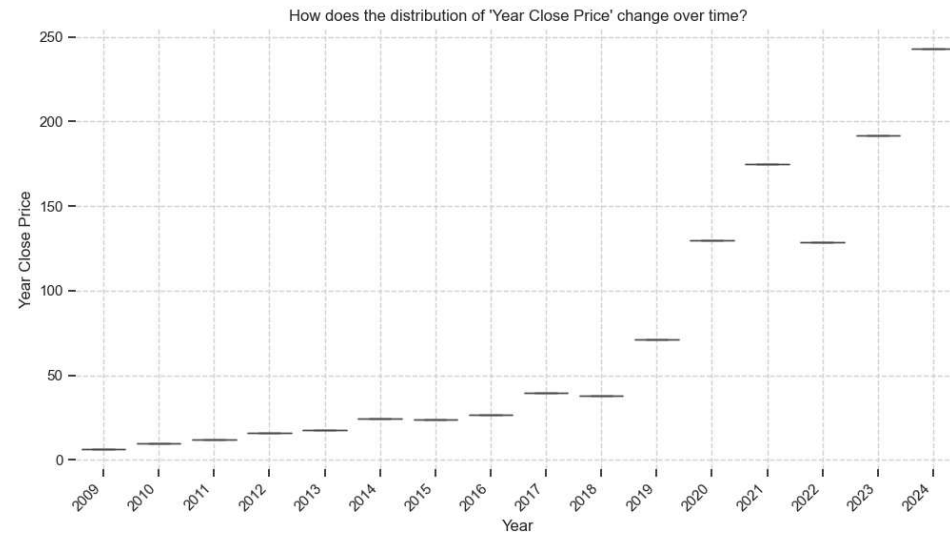


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Insight 4:

<pre>main() Goal Goal(question="How does the distribution of 'Year Close Price' change over time?", visualization="Box plot of 'Year Close Price' grouped by 'year'.", rationale="This visualization uses 'year' and 'Year Close Price' to show the distribution (median, quartiles, outliers) of the year-end stock price ov...</pre>	
A visualization goal	
index int	4
question str	"How does the distribution of 'Year Close Price' change over time?"
rationale str	"This visualization uses 'year' and 'Year Close Price' to show the distribution (median, quartiles, outliers) of the year-end stock price over time. This helps identify periods of high volatility or consistent price changes."
visualization str	"Box plot of 'Year Close Price' grouped by 'year'."



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