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classmate

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Experiment - 4.

Q. Data Analysis Process:

conditional formatting, what-if-analysis, Data tables, charts & graphs.

Conditional formatting - highlighting cells.

what-if-analysis.

A tool used to analyze and predict outcomes by changing input values in a worksheet.

Eg. Suppose you're planning a budget and want to see how different income levels affect your profit.

Using what-if-analysis tools like Scenario Manager, Goal Seek, or Data tables, you can explore different scenarios and predict outcomes based on varying income (Profit) levels.



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Excel sheet - 1.

Quantity

100

Item rate

50

Transportation charge

500

Total amount.

$$= (Q * I) + T, 5500.$$

Item sale Price

60.

Total sale amount

$$6000 \text{ (= Item sale price * Q)}$$

Profit

= Total amount - Total sale amount

500.

Step 1. goto Data Tab.

Step 2. Select what-if Analysis.

Scenario Manager. ✓

Goal Seek.

Data Table.

Step 3. Select Scenario Manager

Step 4. Select Add



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Scenario name
Step 5. Profit for 200 (type)

Step 6. changing cell
Step 6. set Quantity

Step 7. OK.

Step 8. change amount 200.

Step 9. OK.

Step 10. Repeat Same as profit for 300, 400, 500.

after .

Step 11. click Summary.

Step 12. click OK.

Scenario Summary.

	Current values	Profit for 200	Profit for 300	Profit for 400
Changing Cells.				
Quantity	400	100	200	400
Result Cells.				
Profit.	3500	500	1500	3500



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Step 13. go back to Sheet 1 by clicking down side Sheet 1.

Next.

② Goal Seek.

A tool used to find the input value needed to achieve a specific goal or target.

Eg.

Suppose you want to know how many units you need to sell to reach a profit goal of £50. ^(amounts)

Follow the steps.

Step 1. Go to the data tab > what-if analysis > Goal Seek.

Step 2. Goal Seek.

Set cell : profit cell. (by select in your table).

To value : 750.

By changing cell : Quantity (select quantity cell)

Step 3. Ok.

Excel will calculate the required units (amount) sold to reach the profit goal.



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③ Data Table:

A tool used to analyze and display the results of different input values on a formula's output.

Eg. Suppose you want to see how different Profit your monthly business payments.

Step 1. In your excel sheet select 4-5 columns and 3 rows go to home tab \rightarrow  (Select Borders) \rightarrow Select All Borders.

Step 2. Go to Selected tab in 1st column set up your data with formula for profit.

Eg. (=profit) (=Select profit cell). enter.

Step 3. in 1st column and row enter amount 100, 200, 300

Step 4. Select table go to 'Data' tab > what-if analysis > 'data table'.

Step 5. Row input cell:

Column input cell: "Select Quantity cell" (Blank)

Step 6. OK.



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* Charts and Graphs:

visual representations of data
that help analyze and communicate information.

Eg. 1 Bar chart: Compare sales data across different regions.

2. Line Graph: Show trends in website traffic over time.

3. Pie chart: Display market share of different products.

How to create a chart.

Step 1. Select data range

Step 2. Go to 'Insert' tab.

Step 3. Choose chart type
(eg - column, line, pie).

Step 4. Customize chart title, labels, and design.



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7.

Benefits.

1. Easy data analysis.
2. Effective communication.
3. Identify trends and patterns.

* Some common chart types in Excel include.

1. Column charts
2. Line charts
3. Pie charts
4. Bar charts
5. Area charts
6. Scatter plots.



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