

✓ PIVOT TABLE AND CHARTS

ESSAY LEVEL

Que.1 What is the purpose of a pivot table in excel?

Ans.The purpose of a pivot table . A pivot table helps summarise,analyize, and present large datasets in excel. ►Key benefits

1. Data summarization
2. Data analysis trends, patterns
3. Data grouping and filtering.
4. Report creation.

Que.2 Create a pivot table to show total sales by region.

ANS. Here a pivot table to show total sales by region.

```
from google.colab import files  
upload =files.upload()
```

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Saving TOTAL SALES BY REGION v1 to TOTAL SALES BY REGION v1

Que.3 Apply conditional formating to highlight sales greater than 400.

Ans. Here a pivot table to apply conditional formating to highlight sales greater than 400.

```
from google.colab import files  
upload =files.upload()
```

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Saving CONDITIONAL FORMATTING TO HIGHLIGHT SALES v1 to CONDITIONAL FORMATTING

MEDIUM LEVEL

One can find the different features and functions of pivot table

Que.4 Explain the difference between sorting and filtering with an example from this dataset.

Ans. **Sorting means** arranging data in a specific order. ■ What it does:

- Changes the order of the entire dataset.
- Does not hide any data.
- Simply rearranges rows. ■ Types of sorting:
 - Ascending (A-z,small-large,oldest-newest)
 - Descending (Z-A,large-small,newest- oldest) ■EXAMPLE: IF you sort a list of sales(53,76,...)

FILTERING means displaying only the data that meet certain conditions and hiding the rest. ■ What it does: *Shows only required rows based on a condition .

- Hides other rows temporarily.
- Does not change the order of data. ■Example: IF you filter a list of sales to show only those who sales above 400, then only those rows will appear.

Que.5. Create a pivot chart showing monthly sales

Ans. A pivot chart showing monthly sales trend.

```
from google.colab import files  
upload =files .upload()
```

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~~Saving a pivot chart showing monthly sales trend v1sv to a pivot chart showing~~

Que.6 Use a slicer to filter data by product and observe changes in sales.

Ans. Here a slicer to filter data by product and observe changes in sales.

```
from google.colab import files  
upload =files .upload()
```

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~~Saving SI TCFR v1sv to SI TCFR v1sv~~

HARD LEVEL

Que.7 Why are dashboards important for decision-making in business analysis?

Ans. Dashboard are important for decision making in business analysis because they turn complex data into simple, visual, and actional insights. here's why they matter:

1. PROVIDE REAL -TIME INFORMATION: Dashboards show updated data instantly .Managers can see what is happening right now- sales numbers, performance metrics, customer issues- allowing quick decisions.
2. MAKE DATA EASY TO UNDERSTAND : Instead of long reports ,dashboards use graphs,charts ,and KPI'S Visuals help identify trends ,patterns, and problems at a glance.
3. Track key performance indicators (KPIs): Dashboards highlight the most important business metrics-sales, profit, customer satisfaction, cost, productivity- so leaders know whether goals are being achieved.
4. IDENTIFY PROBLEM EARLY: Dashboards highlight sudden drops, spikes, or unusual behavior in data. This helps detect issues before they become serious.
5. IMPROVE DECISION SPEED: With all important data in one place, decision makers don't waste time searching through reports. Fast decisions mean faster action.
6. ENHANCE COMMUNICATION: Teams across the company can use the same dashboard .This creates transparency and helps everyone stay aligned on goals.
7. PROMOTE DATA-DRIVEN DECISIONS: Dashboards rely on accurate data, so managers make decisions based on facts- not guesses or assumptions.
8. SAVE TIME: Automated dashboards reduce manual reporting work. Analyzing and ,less time preparing data

Que 8. Create a dashboard that includes: .Sales by region(PIVOT TABLE+CHART) . Product filter(slicer) . monthly trend(line chart)

ANS. here a dashboard that includes: Sales by region(Pivottable+chart), product filter(slicer), monthly trend(line chart)

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```
from google.colab import files  
upload =files.upload()
```

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Saving DASHBOARD v1sv to DASHBOARD v1sv

Que.9 Group data in the pivot table into months and calculate the average sales per month.

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ANS. Here a pivot table into months and calculate the average sales permonths

```
from google.colab import files  
upload =files.upload()
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Saving DASHBOARD v1sv to DASHBOARD (1) v1sv

Que.10 Combine APPLES AND ORANGES into one groups called fruits and compare its sales with other products.

Ans. Here a pivot table in which apple and oranges into one groups calles fruits and compare its sales with other products.

```
from google.colab import files  
upload =files.upload()
```

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Saving COMDARF SAIFs v1sv to COMDARF SAIFs v1sv

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Start coding or generate with AI.

Ans.

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