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# Top 16 Advanced Excel Interview Questions and Answers

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## Top 16 Advanced Excel Interview Questions and Answers

It is a known fact that every organization in the world uses Excel as a part of their daily day-to-day activities. Therefore learning and being skilled in Excel has become a basic prerequisite for all candidates. But at the same time being skilled in Advanced Excel can also be a major benefit to any candidate as that will increase your likelihood of getting hired. So, that is why we have curated these Advanced Excel Interview Questions and Answers, which will give you an overall understanding of how to prepare for your Advanced Excel Interview.

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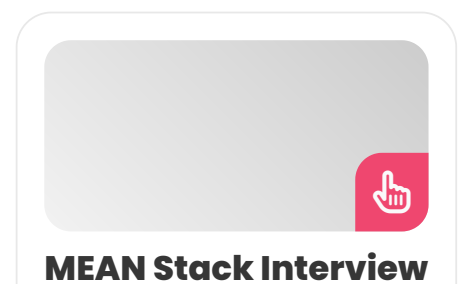
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## Advanced Excel Interview Questions and Answers

### 1. What is Advanced Excel?

Advanced Excel refers to a high level of proficiency in Microsoft Excel beyond basic tasks. It includes creating complex formulas, analyzing data with PivotTables and advanced tools, automating processes with macros and VBA, connecting to external databases, and producing professional reports and visualizations. These skills are crucial for efficiently managing and analyzing data in professional settings.

### 2. Explain Conditional Formatting in Excel.

Conditional formatting in Excel automatically formats cells based on specific criteria or conditions, allowing users to highlight trends, patterns, or outliers in data dynamically. It enhances data analysis by visually emphasizing important information without altering the underlying data, enabling quicker insights and decision-making processes.

### 3. What are the ways to protect workbooks, sheets and cells in Excel?

In Excel, you can protect workbooks, sheets, and individual cells to prevent unauthorized changes using different methods:

- **Protecting a Workbook:** Set a password to prevent unauthorized opening through "File" > "Info" > "Protect Workbook" > "Encrypt with Password".
- **Protecting a Worksheet:** Prevent structural changes or cell edits by going to the "Review" tab and selecting "Protect Sheet", optionally setting a password.

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- **Protecting Individual Cells:** Lock specific cells after unlocking all cells via “Format Cells” > “Protection” tab, then protect the sheet as described.
- **Workbook Structure Protection:** Safeguard workbook structure against changes like adding or deleting sheets using “Review” > “Protect Workbook” > “Protect Structure”, optionally with a password.
- **File-Level Protection:** Encrypt the entire file using system tools or third-party software for comprehensive security against unauthorized access.

#### 4. Explain Loops in VBA.

In VBA (Visual Basic for Applications), loops are used to repeat blocks of code, allowing efficient handling of repetitive tasks. Different loop types include:

- **For Loop:** Executes code a set number of times, incrementing a counter from start to end.
- **For Each Loop:** Iterates through elements in a collection, executing code for each element.
- **Do While Loop:** Repeats code while a specified condition is true, checked before each iteration.
- **Do Until Loop:** Repeats code until a condition becomes true, checked before each iteration.
- **Do Loop While:** Executes code at least once and repeats while a condition is true, checked after each iteration.
- **Do Loop Until:** Executes code at least once and repeats until a condition becomes true, checked after each iteration.

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## 5. Explain the sequence of steps Excel takes when it evaluates a formula?

Excel follows a specific sequence when evaluating a formula:

- **Parsing:** Excel begins by analyzing the formula to identify components such as operators, functions, and cell references.
- **Parentheses:** It prioritizes calculations within parentheses, adhering to standard mathematical rules.
- **Exponents:** Excel computes any exponentiation operations (e.g.,  $\wedge$ ) next.
- **Multiplication and Division:** Operations are performed from left to right for multiplication ( $*$ ) and division ( $/$ ).
- **Addition and Subtraction:** Similarly, addition ( $+$ ) and subtraction ( $-$ ) operations are executed from left to right.
- **Comparison Operators:** If the formula includes comparison operators (like  $>$ ,  $<$ ,  $=$ ), Excel evaluates these sequentially.
- **Concatenation:** Text values are concatenated using the ( $\&$ ) operator.
- **Functions:** Excel evaluates functions in the order they appear in the formula, processing arguments or conditions as defined within each function.
- **References:** Finally, Excel computes cell references, fetching and processing data from the specified cells.

## 6. What are the advantages of using sheet formulas in Excel?

Using sheet formulas in Excel provides several benefits:

- **Efficiency:** Perform calculations and data manipulations directly within the spreadsheet, eliminating manual work and potential errors.
- **Automation:** Automate repetitive tasks, ensuring accuracy and saving time when updating values based on input changes.
- **Consistency:** Ensure uniform calculations across the entire workbook, maintaining accuracy and reliability.
- **Complexity:** Handle complex calculations involving multiple variables, functions, and conditions effortlessly, facilitating advanced data analysis and reporting.
- **Data Integrity:** Reduce errors with reliable arithmetic operations and logical tests, enhancing data accuracy.
- **Real-Time Updates:** Formulas update dynamically with data changes, providing immediate insights into dependencies and relationships.
- **Versatility:** Utilize a variety of built-in functions and operators to tailor formulas to specific needs, enhancing flexibility.
- **Transparency:** Easily trace and audit calculations, validate formula logic, and debug errors using Excel's auditing tools.
- **Integration:** Seamlessly integrate formulas with Excel's features like PivotTables, charts, and conditional formatting, enhancing data visualization and analysis capabilities.

## 7. What are the core modules in VBA?

- **Standard Modules:** Standard modules store general-purpose procedures and functions accessible throughout the VBA project, not tied to specific objects.
- **Class Modules:** Class modules facilitate

creation of user-defined objects with properties, methods, and events, enabling object-oriented programming in VBA.

- **UserForms:** UserForms are custom dialog boxes with controls like buttons and text boxes, designed for user interaction and data entry/display customization.
- **Worksheet Modules:** Worksheet modules are linked to specific Excel worksheets, running event procedures in response to actions like cell changes, sheet activation, or workbook events.
- **Workbook Modules:** Workbook modules relate to the entire Excel workbook, housing event procedures triggered by workbook actions such as opening or saving.

## 8. What is ADO in advanced Excel?

- In advanced Excel, ADO (ActiveX Data Objects) is a technology used to connect Excel with external data sources such as databases, text files, and Excel workbooks.
- It allows Excel to retrieve data, execute SQL queries, manage recordsets for data handling, automate processes with VBA macros, and enhance data analysis and reporting capabilities.
- ADO facilitates efficient data manipulation and integration, making it essential for complex data operations within Excel.

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## 9. How to turn off the automatic sorting feature in pivot tables in advanced Excel?

In advanced Excel, users have the option to disable the automatic sorting feature in pivot tables by adjusting the sorting preferences found within the pivot table settings.

## **10. What is the VLOOKUP function in Excel?**

VLOOKUP searches for a value in the first column of a specified table array and returns a corresponding value from another column in the same row. It's particularly useful for extracting data from large datasets based on a unique identifier.

## **11. Describe PivotTables and their significance in Excel.**

PivotTables are robust tools in Excel designed for summarizing, analyzing, and presenting extensive datasets efficiently. They allow users to dynamically rearrange and summarize data by simply dragging and dropping fields, facilitating quick insights and report generation.

## **12. How can you create a macro in Excel?**

Macros in Excel are created using VBA (Visual Basic for Applications). You can either record a macro by manually performing actions that you want to automate, or write VBA code directly in the VBA editor to define specific functionalities. Macros help automate repetitive tasks and enhance productivity in Excel.

## **13. Differentiate between absolute and relative cell references in Excel.**

Absolute cell references (e.g., \$A\$1) always refer to a specific cell, regardless of where the formula containing the reference is copied or filled. Relative cell references (e.g., A1), however, change based on their relative position to the new location of the formula. This flexibility allows formulas to adjust dynamically to different data locations.

## **14. What is the INDEX-MATCH function combination in Excel, and how does it compare to VLOOKUP?**

INDEX-MATCH is a duo of Excel functions used for

retrieving values from a table. INDEX returns a cell value based on column and row numbers, while MATCH locates the position of an item in a range. Together, they offer more flexibility than VLOOKUP, which is limited to left-to-right searches in tables.

### **15. Explain the purpose of the SUMPRODUCT function in Excel and provide an example of its usage.**

The SUMPRODUCT function in Excel multiplies arrays or ranges together and then sums the resulting products. It is handy for performing calculations across multiple sets of data. For instance, SUMPRODUCT(A1

, B1

) computes the sum of products of corresponding elements in ranges A1 to A10 and B1 to B10.

### **16. What is Power Query (Get & Transform) in Excel, and how does it simplify data preparation and analysis?**

Power Query (Get & Transform) is an advanced data connection tool in Excel that empowers users to explore, connect, merge, and refine data from various sources. It streamlines data preparation by automating tasks such as table merging, data format transformations, and data cleansing before importing into Excel for thorough analysis.

**Advanced Excel Training**

## **Conclusion**

These **Advanced Excel Interview Questions and Answers** will help you get an overall grasp on most of the concepts in Advanced Excel, that will help you learn Excel into the advanced level. We have curated these Advanced Excel Interview Questions to give you an understanding of what to expect from your advanced Excel Interview. So, candidates are expected to make good use of these interview



questions.

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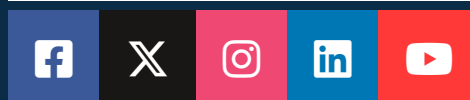
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