



**INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY
ADVANCED SCIENTIFIC RESEARCH AND INNOVATION
(IJMASRI)**

ISSN: 2582-9130

IBI IMPACT FACTOR 1.5

DOI: 10.53633/IJMASRI

RESEARCH ARTICLE

CLONE OF EXCEL

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Abstract

When you buy Excel as part of Office Home & Student, you only have to pay 5,299INR. This includes a one-time purchase for 1 PC or Mac of the classic versions of Word, Excel, and PowerPoint. You can also buy Excel alone for almost the same price. Many schools and organisations cannot afford this premium software. We will provide this Excel clone free of cost. Also no need of Heavy Software/hardware to run this application. This application is a basically a replacement of complex Excel application. This is a ready to go application which provide a desired result in a just a one click away. We do not require such complex application like Microsoft Excel to perform our basic opera. Since this web application is of very low size so it become for those users who have system with minimum or older specification.

Keywords: Operating system, user interface, Hypertext transfer protocol

Introduction

We are going to create a Clone of MS-Excel, this project will be implemented using Web Development. User interface will be very user friendly and easy to use. Not only UI, we will take care of backend also. This web app will be so easy to handle that any user can handle it without any prior usage knowledge. This clone will be able to perform majority of the operation of real Excel.

This application is a basically a replacement of complex Excel application. This is a ready to go application which provide a desired result in a just a one click away. We do not require such complex application like Microsoft Excel to perform our basic opera. Since this web application is of very low size so it become for those users who have system with minimum or older specification.

There is no issue of speed and size as in case of Microsoft Excel we need 16gb of free hard disk space which makes a storage constraint and instead we provide a freeware software for the needy ones.

This web application has no limitation over accessibility, user can access it from anywhere any device without taking care of user account. This application is comparatively faster because like usual software it does not require to be loaded in main memory it only needed updated web browser for correct functionality there will be no issues of memory overflow because this web app takes very less amount of space as compare to heavy application like excel.

Unlike Microsoft Excel this app does not require any activation or any other product key which makes it more useable for any individual on the other hand it has a feature that any organisation has lifetime free accessibility. Smooth and efficient uploading and downloading of file using local storage. That's why file transfer will also be easy.

This web application can perform all mathematical and logical operations like addition, subtraction, multiplication, division, modulo, square roots, cubic roots, etc.

This application provides many formulae that help you to solve simple and complex calculation.

Functionalities

Text color, fill color, alignment, cut , copy, paste. We can save our excel file we can add/delete sheet Formula Evaluation add new file and also open the old saved one.

What is a spreadsheet?

A spreadsheet is a program used to record and analyse numerical and statistical data. Excel provides multiple features to perform various operations like calculations, pivot tables, graph tools, etc. It is compatible with multiple OS like Windows, macOS, Android and iOS.

A spreadsheet can be understood as a collection of columns and rows that form a table. Alphabetical letters are usually assigned to columns, and numbers are usually assigned to rows. The point where a column and a row meet is called a cell. The address of a cell is given by the letter representing the column and the number representing a row.

If you have ever managed a budget by using paper, pencil and calculator, you would know the limitations:

1. Filling out ledger sheets
2. Calculating and recalculating totals
3. Redesigning sheets to add or delete columns and rows, and so on.

The beauty of Excel is its ability to simplify these tasks. Working with a paper spreadsheet is complicated, time consuming and limited. If a portion of your row data changes, you must erase and re-enter it, then you have to erase and recalculate derived data, such as totals or averages that were affected by your changes. Excel can be used to make quick and easy financial analysis, analyse data and create presentation with charts (graph utilities), retrieve data from external data sources and use it in worksheets to calculate based on data from multiple worksheets, create web page with ease, and run queries on data available on the web.

What Is Excel ?

Excel is a full-featured spreadsheet program that allows you to organize data, complete calculations, make decisions, transform data to graph, and develop professional looking reports. The three major parts of Excel are:

Worksheets: Worksheets allow you to enter, calculate, manipulate and analyse data such as numbers and text.

Charts: Charts pictorially represent data. Excel can draw two-dimensional and three dimensional column charts, pie charts and other types of charts.

Databases: Databases manage data. For example, once you enter data onto a worksheet, Excel can sort the data, search for specific data, and select data that meets certain criteria.

Excel and Data Base Management: Excel is not database package but has some special database features like sorting, filtering, and data retrieval, which allows users to create and manage list. Hence, Excel is equipped to handle and manipulate small databases. While creating a small database, two points must be noted:

a) The rows of data should be continuous to facilitate the manipulation of data. That is no blank row even a column label and the first record in the database.

b) The names of the columns should be entered in a single cell and must be unique.

Data Analysis: Data analysis is important for an online business or website owner (e Commerce, blog, forums, etc.). It helps in tracking website visitors, product sell, customer reviews, marketing campaigns, user behaviour, and events. Microsoft Excel helps in filtering users data by country, filtering users by age, adding conditional formulas in big data, etc. smartly in excel.

Report Generation: Both online and offline companies and clients making it mandatory for the staff to maintain their daily progress reports. So they can easily create a table with Date, Time, Client, Task, Duration, and status according to clients or managers. Even companies can use it to track down daily progress reports.

Entrepreneurs & Business Owners – can analyse team and individual performance, business progress & pay-out details. They can store and present extensive data using multiple tables, pivot tables, data highlighters, sorters, sheets etc.

Students & Teachers – can use excel to educate students in the classrooms by using table styles, charts, shapes, data tools, and other formulas. Also, students can learn to solve fundamental and logical statistical & mathematical problems in excel.

Goal Setting & Planning – With the use of MS Excel, setting up goals and planning becomes efficient, quick and easy.

Excel for Housewives – To manage monthly expenses & save money, excel becomes a useful tool for homemakers. They can track down and control the spending habits of each member of the family.

Developing Future Strategies – MS excel can be used to anticipate investments and significant expenses for a future date and present in the form of charts and graphs. It will help to identify the trends and compare each possibility easily.

Create a Calendar or Schedule – Excel can help track a weekly, monthly or yearly calendar or a personal appointment. You can schedule it for managing bill payments, homework, etc., the excel can easily compile, filter, search, organise and simplify your data.

What are the Common Features in all Microsoft Excel versions?

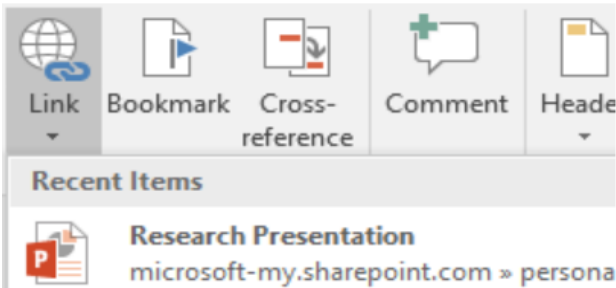
1. Vlookup
2. Pie Chart
3. Mixed/ Combination Type Charts
4. Data Validation
5. IFERROR Function
6. Remove Duplicates
7. Conditioned Formatting
8. Filters

Conclusion

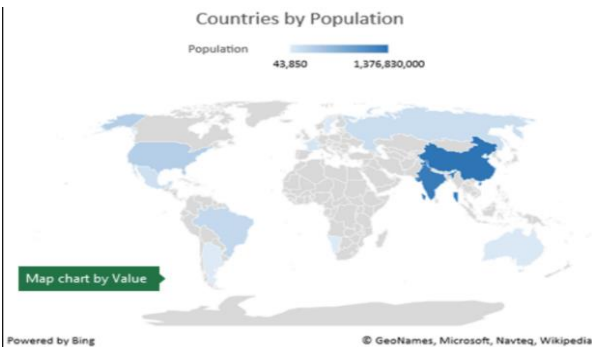
What we observe so far in different versions of MS Excels.

MS Excel 2019

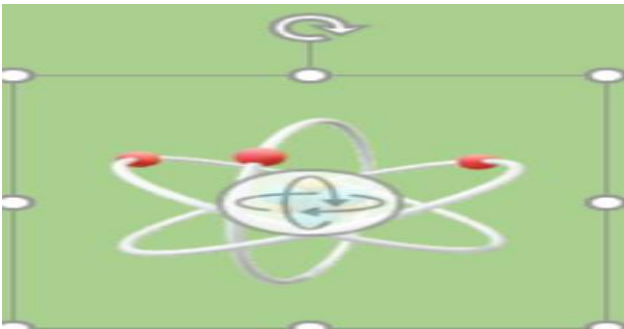
- CONCAT
- IFS
- MAXIFS
- MINIFS
- SWITCH
- TEXTJOIN
- Sharing is better and easier



- New and Improved Connectors
- New Charts



- New 3D model



Microsoft Excel 2016

1. Forecasting
2. Search Fields in Pivot Tables



Microsoft Excel 2013

1. New Look
2. Flash Fill
3. Instant Data Analysis
4. Timelines
5. Expanded Slicers

Microsoft Excel 2010

1. Sparklines
2. Improved Tables and Filters

Txn Date	Salesperson	Region	Product	Total Units	Amount
5-Jan-09	Maria	North	RapidZoo	6	1,827
5-Jan-09	Matt	Middle	SuperGlue	8	2,336
5-Jan-09	Matt	North	FastCar	6	1,464
6-Jan-09	Maria	Middle	SuperGlue		
6-Jan-09	Matt	Middle	SuperGlue		
6-Jan-09	Joseph	Middle	RapidZoo		
6-Jan-09	Lawrence	North	RapidZoo	7	1,827

1. New Screenshot Feature
2. Improved Conditioned Formatting
3. Customized Ribbons

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