

5-May, 2026-yil

PREPARING VARIOUS REPORTS IN EXCEL

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Abstract: *This article provides detailed information about preparing various types of reports using Microsoft Excel. It explains data organization, calculation methods, visualization tools, and the use of pivot tables for efficient data analysis. The article also highlights the importance of Excel in modern professional fields such as economics, medicine, and management.*

Keywords: *Microsoft Excel, reports, data analysis, pivot table, charts, functions, spreadsheet, automation*

INTRODUCTION

In the modern digital world, working with data has become an essential part of almost every field. Accurate data analysis and reporting are especially important in economics, healthcare, education, and business management. Among various software tools, Microsoft Excel is widely used for creating structured reports and performing calculations efficiently.

Excel allows users not only to store data but also to analyze, visualize, and interpret it. Therefore, learning how to prepare reports in Excel is an important skill for students and professionals.

Data organization in Excel

The first step in preparing a report is organizing data correctly. Each column represents a specific type of information such as date, product, or quantity, while each row contains individual records.

Properly structured data ensures:

1. easy analysis
2. correct calculations
3. efficient report generation

Using formulas and functions

Excel provides powerful functions that simplify calculations:

1. SUM() – calculates total values
2. AVERAGE() – finds average values
3. COUNT() – counts entries

These functions help automate calculations and reduce human errors in large datasets.

Charts and data visualization

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Visual representation is a key part of reporting. Excel offers different types of charts:

- 1.Column charts
- 2.Pie charts
- 3.Line graphs

These tools make it easier to understand trends, comparisons, and patterns in data.

Pivot table technology

Pivot tables are one of the most advanced features of Excel. They allow users to:

- 1.summarize large datasets
- 2.group information
- 3.analyze data quickly

For example, users can calculate total sales by product or analyze income over time.

Filtering and sorting

Filtering and sorting tools help users:

- 1.find specific data
- 2.arrange information in ascending or descending order

This improves the accuracy and usability of reports.

Designing professional reports

The appearance of a report is also important. Excel provides:

- 1.Conditional formatting
- 2.Table styles
- 3.Custom colors and fonts

These features enhance readability and make reports more professional.

Conclusion

In conclusion, Microsoft Excel is a powerful tool for preparing various types of reports. It enables users to organize, analyze, and visualize data efficiently. Mastering Excel skills improves productivity and supports better decision-making in different professional fields.

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