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\documentclass{beamer}

% Theme and color \usetheme{Madrid} \usecolortheme{seahorse}

% Language and encoding \usepackage[utf8]{inputenc} \usepackage[russian, english]{babel}
\usepackage{booktabs} % For nicer tables

% Title info \title{Laboratory Work №5 — Tables} \subtitle{Practical Scientific Writing} \author{Nadia Ezzakate} \date{November 2025}

\begin{document}

% Title slide \begin{frame} \titlepage \end{frame}

% Purpose \begin{frame}{Purpose of the Work} Learn and practice creating tables in \LaTeX{}:
\begin{itemize}
\item Use different column alignments (l, c, r)
\item Handle rows with too few or too many items
\item Apply the \texttt{\textbackslash multicolumn} command
\end{itemize} \end{frame}

% Tasks \begin{frame}{Tasks} \begin{enumerate}
\item Create a simple table with three columns
\item Test l, c, r alignments
\item Observe behavior with missing or extra items
\item Apply \texttt{\textbackslash multicolumn} to merge columns
\item Prepare report and presentation in Markdown and convert
\end{enumerate} \end{frame}

% Tools \begin{frame}{Tools and Environment}
\begin{itemize}
\item Operating System: macOS
\item Editor: VS Code / Nano
\item Compiler: \texttt{pdflatex} (MacTeX 2025)
\item Version Control: Git + GitHub
\item Conversion Tool: Pandoc
\end{itemize} \end{frame}

% Procedure - Simple Table \begin{frame}{Procedure: Simple Table}
\begin{itemize}
\item Created a three-column table: \texttt{\{|l|l|l|}}
\item Result: all cells left-aligned
\end{itemize} \end{frame}

% Procedure - Alignments \begin{frame}{Procedure: Testing Different Alignments}
\begin{itemize}
\item \texttt{\{c c c\}} → center-aligned
\item \texttt{\{r r r\}} → right-aligned
\item Each table compiled correctly and visually verified
\end{itemize} \end{frame}

% Procedure - Missing / Extra Items \begin{frame}{Procedure: Missing and Extra Items}
\begin{itemize}
\item Too few items: missing cells left blank
\item Too many items: LaTeX warning ``Extra alignment tab has been changed to \textbackslash cr''
\end{itemize} \end{frame}

% Procedure - Multicolumn \begin{frame}{Procedure: Using \textbackslash multicolumn}
\begin{itemize}
\item Command used: \texttt{\textbackslash multicolumn{3}{c}{Animals and Food}}
\item Result: merged three columns into one centered heading
\end{itemize} \end{frame}

% Results Table \begin{frame}{Results}
\begin{table}[h]
\centering
\begin{tabular}{lll}
\toprule
Experiment & Description & Result \\
\midrule
Alignment & Tested l, c, r columns & Works correctly \\
Missing / Extra Items & &
\end{tabular}
\end{table}
\end{frame}
```

& Checked behavior with uneven cells & As expected \texttt{\textbackslash multicolumn} & Spanned cells across columns & Works correctly \bottomrule \end{tabular} \end{table} \end{frame}

% Conclusion \begin{frame}{Conclusion} \begin{itemize} \item Successfully designed professional tables in \LaTeX

\item Learned alignment rules, spacing, and column merging

\item Foundation for clean, publication-ready scientific documents \end{itemize} \end{frame}

% References \begin{frame}{References} \begin{enumerate} \item \emph{Practical Scientific Writing – Section 5: Tables}

\item LaTeX Documentation: \url{https://www.latex-project.org/help/documentation/} \end{enumerate} \end{frame}

% Repository Info \begin{frame}{Repository Information} \begin{itemize} \item Full Repository:

\url{https://github.com/nadiaelfe/lab05}

\item Release (to be added after upload): \emph{TBD} \end{itemize} \end{frame}

\end{document}