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Create table latex

Tables are used to imagine data in a structured manner. It makes the information easier and easier to read. In this tutorial we will learn how to make a simple and multi-page table at LaTeX with customization in their rules and distances, combine and color rows and columns, deal with captions, references, cell widths, positions and neglected cells. The table in LaTeX can be created using the table environment and tabular environment that uses ampersands (&.) as a column break and a new line symbol (\) as a line break. Vertical lines (|) are passed as arguments and letters l, c and r tell us whether we want to put content on their left, center or right. Here are the codes and results from a simple table created. \documentclass{article} \usepackage{utf8}[inputenc] \title{table} \start{document} \start{center} \start{tabular} c c } a & a & c \ a & a & document \start{center} \start{tabular} c c } a & a & c \ a & a & document c \ a & a & b \ \end{tabular} \end{center} \end{document} Output code above Command \hline is used to place lines at the top and bottom of the table. Creating a table with boundaries is shown below: \documentclass{article} \usepackage{utf8}[inputenc] \title{table} \start{document} \start{tabular} |c | b & a & c \ a & a & b \ a & a & c \ \hline \hline \end{tabular} \end{center} \end{document} Output code above Number of times \hline commands will be written is the number of horing lines that will indicate between rows. Multiple entries of this command can be used to distinguish between column titles from the details. The table can be created by providing a fixed length of the column as well as by providing measurements between vertical lines (|) where the argument is approved with letters. From l, c and r we use each m, p and b for middle, up and down. For example, { {m{5em} |m{1cm} |m{1cm}} To create multiple page schedules in LaTeX users should refer to the old package. The table is produced so that it can be broken down by the LaTeX page breaking down the algorithm. The code uses four elements: 1. \endfirsthead: the content above this command will appear at the beginning of the table on the first page.2. \endhead: content placed before this command and below \endfirsthead will be displayed at the top of the table on each page except the first.3. \endfoot: content placed after \endhead and before this command will appear at the bottom of the table on the first page.4. \endlastfoot: content after \endfoot and before this command will be displayed at the bottom of the table but only on the last page where the table appears. Examples of multi-page tables in LaTeX are shown below: \usepackage{utf8}[inputenc] \usepackage{longtable} \start{document} \start{longtable} [c] { | | c | } \hline \multicolumn{2} { | c | } {Table Startup\ \hline Food & a & a & Name \ \hline \endfirsthead \hline \multicolumn{2} { c | } {Table Continuity}\ref{long}} \hline Food & a & a & Name \ \hline \endhead \hline \endfoot \hline \multicolumn{2} { | c | } {End of Table}\ \hline \endlastfoot Lots line & a & like this \ \ Many & a & a & lines; like this \ \ Many & a & a & lines; such as \ \ \end{longtable} \end{document} Output code on the command \multicolumn and \multirow used to combine rows and columns in the Sample table various columns are shown below: \documentclass{article} \usepackage{utf8}[inputenc] \start{document} \start{tabular} { { {3 cm} | p {3 cm} | } \ \hline \multicolumn{3} | {Books}\ \hline Food Name & a & a & Author & a & Publications \ \hline Book1 & a & a & Author1 & a & a & P1 \ \ Book1 & a & a & Author2 & a & a & P2 \ \ Book1 & a & a & Author & a & a & P3 \ \ Book1 & a & a & Author4 & a & a & P4 \ \ \hline \end{tabular} \end{document} Output code above Sample multiple lines is as follows: \documentclass{article} \usepackage{utf8}[inputenc] \start{document} \start{center} \start{tabular} { | c | — \hline c1 & a & a & c2 & a & a & c3 \ \hline \multirow {3} {4em} {a} & a & a & c \ a & a & b \ \ a & a & b \ \hline \end{tabular} \end{center} \a} \a} \end. The three important commands used are as follows: 1. \caption{}; this command is used to create captions for tables placed either above or under table.2. \label{}; this command is used to refer to the table in document.3. \ref{}; this will be placed by a number that matches the referenced table. \documentclass{article} \usepackage{utf8}[inputenc] \start{document} \start{table} [h] \centering \start{tabular} { | | c | | } \hline Col1 & a & a & Col1 & a & a & Col2 & a & a & Col3 & a & a & Col4 \ \ [0.5 ex] \hline \hline 1 & a & a & 2 & a & a & 3 & a & a & 4 \ \ 5 & a & a & 6 & a & a & 7 & a & a & 8 \ \ 9 & a & a & 10 & a & a & 11 & a & a & 12 \ \ 13 & a & a & 15 & a & a & 16 \ \ 17 & a & a & 18 & a & a & 19 & a & a & 20 \ \ [1ex] \hline \end{tabular} \caption{Table to test captions and labels} \label {table:1} \end{table} \end{document} Output code above For the table to be established at what position it must be placed, parameter h! should be placed in a desk environment. Some other approved parameters mentioned below: 1. h: the table will be placed here approximately.2. t: the table is placed at the top of the page.3. b: the table is placed at the bottom of page.4. p: place the table on a special page for table only.5. f: overcome the external LaTeX parameters.6. H: place the table in the exact location.7. \centered: the center of the schedule. Here is an example of the table placed here \documentclass{article} \usepackage{utf8}[inputenc] \start{document} \start{table} [h] \centering \start{tabular} { | | c | c | c | | } \hline C1 & a & a & C2 & a & a & C2 & a & a & C4 \ \ [0.5] ex \hline 1 & a & a & 2 & a & a & 3 & a & a & 4 \ \ 2 & a & a & 5 & a & a & 6 & a & a & 7 & a & a & 8 & a & a & 9 \ \ 3 & a & a & 10 & a & a & 11 & a & a & 12 & a & a & 13 & a & a & 14 & a & a & 15 & a & a & 16 & a & a & 17 & a & a & 18 & a & a & 19 & a & a & 20 & a & a & 21 & a & a & 22 & a & a & 23 & a & a & 24 & a & a & 25 & a & a & 26 & a & a & 27 & a & a & 28 & a & a & 29 & a & a & 30 & a & a & 31 & a & a & 32 & a & a & 33 & a & a & 34 & a & a & 35 & a & a & 36 & a & a & 37 & a & a & 38 & a & a & 39 & a & a & 40 & a & a & 41 & a & a & 42 & a & a & 43 & a & a & 44 & a & a & 45 & a & a & 46 & a & a & 47 & a & a & 48 & a & a & 49 & a & a & 50 & a & a & 51 & a & a & 52 & a & a & 53 & a & a & 54 & a & a & 55 & a & a & 56 & a & a & 57 & a & a & 58 & a & a & 59 & a & a & 60 & a & a & 61 & a & a & 62 & a & a & 63 & a & a & 64 & a & a & 65 & a & a & 66 & a & a & 67 & a & a & 68 & a & a & 69 & a & a & 70 & a & a & 71 & a & a & 72 & a & a & 73 & a & a & 74 & a & a & 75 & a & a & 76 & a & a & 77 & a & a & 78 & a & a & 79 & a & a & 80 & a & a & 81 & a & a & 82 & a & a & 83 & a & a & 84 & a & a & 85 & a & a & 86 & a & a & 87 & a & a & 88 & a & a & 89 & a & a & 90 & a & a & 91 & a & a & 92 & a & a & 93 & a & a & 94 & a & a & 95 & a & a & 96 & a & a & 97 & a & a & 98 & a & a & 99 & a & a & 100 & a & a & 101 & a & a & 102 & a & a & 103 & a & a & 104 & a & a & 105 & a & a & 106 & a & a & 107 & a & a & 108 & a & a & 109 & a & a & 110 & a & a & 111 & a & a & 112 & a & a & 113 & a & a & 114 & a & a & 115 & a & a & 116 & a & a & 117 & a & a & 118 & a & a & 119 & a & a & 120 & a & a & 121 & a & a & 122 & a & a & 123 & a & a & 124 & a & a & 125 & a & a & 126 & a & a & 127 & a & a & 128 & a & a & 129 & a & a & 130 & a & a & 131 & a & a & 132 & a & a & 133 & a & a & 134 & a & a & 135 & a & a & 136 & a & a & 137 & a & a & 138 & a & a & 139 & a & a & 140 & a & a & 141 & a & a & 142 & a & a & 143 & a & a & 144 & a & a & 145 & a & a & 146 & a & a & 147 & a & a & 148 & a & a & 149 & a & a & 150 & a & a & 151 & a & a & 152 & a & a & 153 & a & a & 154 & a & a & 155 & a & a & 156 & a & a & 157 & a & a & 158 & a & a & 159 & a & a & 160 & a & a & 161 & a & a & 162 & a & a & 163 & a & a & 164 & a & a & 165 & a & a & 166 & a & a & 167 & a & a & 168 & a & a & 169 & a & a & 170 & a & a & 171 & a & a & 172 & a & a & 173 & a & a & 174 & a & a & 175 & a & a & 176 & a & a & 177 & a & a & 178 & a & a & 179 & a & a & 180 & a & a & 181 & a & a & 182 & a & a & 183 & a & a & 184 & a & a & 185 & a & a & 186 & a & a & 187 & a & a & 188 & a & a & 189 & a & a & 190 & a & a & 191 & a & a & 192 & a & a & 193 & a & a & 194 & a & a & 195 & a & a & 196 & a & a & 197 & a & a & 198 & a & a & 199 & a & a & 200 & a & a & 201 & a & a & 202 & a & a & 203 & a & a & 204 & a & a & 205 & a & a & 206 & a & a & 207 & a & a & 208 & a & a & 209 & a & a & 210 & a & a & 211 & a & a & 212 & a & a & 213 & a & a & 214 & a & a & 215 & a & a & 216 & a & a & 217 & a & a & 218 & a & a & 219 & a & a & 220 & a & a & 221 & a & a & 222 & a & a & 223 & a & a & 224 & a & a & 225 & a & a & 226 & a & a & 227 & a & a & 228 & a & a & 229 & a & a & 230 & a & a & 231 & a & a & 232 & a & a & 233 & a & a & 234 & a & a & 235 & a & a & 236 & a & a & 237 & a & a & 238 & a & a & 239 & a & a & 240 & a & a & 241 & a & a & 242 & a & a & 243 & a & a & 244 & a & a & 245 & a & a & 246 & a & a & 247 & a & a & 248 & a & a & 249 & a & a & 250 & a & a & 251 & a & a & 252 & a & a & 253 & a & a & 254 & a & a & 255 & a & a & 256 & a & a & 257 & a & a & 258 & a & a & 259 & a & a & 260 & a & a & 261 & a & a & 262 & a & a & 263 & a & a & 264 & a & a & 265 & a & a & 266 & a & a & 267 & a & a & 268 & a & a & 269 & a & a & 270 & a & a & 271 & a & a & 272 & a & a & 273 & a & a & 274 & a & a & 275 & a & a & 276 & a & a & 277 & a & a & 278 & a & a & 279 & a & a & 280 & a & a & 281 & a & a & 282 & a & a & 283 & a & a & 284 & a & a & 285 & a & a & 286 & a & a & 287 & a & a & 288 & a & a & 289 & a & a & 290 & a & a & 291 & a & a & 292 & a & a & 293 & a & a & 294 & a & a & 295 & a & a & 296 & a & a & 297 & a & a & 298 & a & a & 299 & a & a & 300 & a & a & 301 & a & a & 302 & a & a & 303 & a & a & 304 & a & a & 305 & a & a & 306 & a & a & 307 & a & a & 308 & a & a & 309 & a & a & 310 & a & a & 311 & a & a & 312 & a & a & 313 & a & a & 314 & a & a & 315 & a & a & 316 & a & a & 317 & a & a & 318 & a & a & 319 & a & a & 320 & a & a & 321 & a & a & 322 & a & a & 323 & a & a & 324 & a & a & 325 & a & a & 326 & a & a & 327 & a & a & 328 & a & a & 329 & a & a & 330 & a & a & 331 & a & a & 332 & a & a & 333 & a & a & 334 & a & a & 335 & a & a & 336 & a & a & 337 & a & a & 338 & a & a & 339 & a & a & 340 & a & a & 341 & a & a & 342 & a & a & 343 & a & a & 344 & a & a & 345 & a & a & 346 & a & a & 347 & a & a & 348 & a & a & 349 & a & a & 350 & a & a & 351 & a & a & 352 & a & a & 353 & a & a & 354 & a & a & 355 & a & a & 356 & a & a & 357 & a & a & 358 & a & a & 359 & a & a & 360 & a & a & 361 & a & a & 362 & a & a & 363 & a & a & 364 & a & a & 365 & a & a & 366 & a & a & 367 & a & a & 368 & a & a & 369 & a & a & 370 & a & a & 371 & a & a & 372 & a & a & 373 & a & a & 374 & a & a & 375 & a & a & 376 & a & a & 377 & a & a & 378 & a & a & 379 & a & a & 380 & a & a & 381 & a & a & 382 & a & a & 383 & a & a & 384 & a & a & 385 & a & a & 386 & a & a & 387 & a & a & 388 & a & a & 389 & a & a & 390 & a & a & 391 & a & a & 392 & a & a & 393 & a & a & 394 & a & a & 395 & a & a & 396 & a & a & 397 & a & a & 398 & a & a & 399 & a & a & 400 & a & a & 401 & a & a & 402 & a & a & 403 & a & a & 404 & a & a & 405 & a & a & 406 & a & a & 407 & a & a & 408 & a & a & 409 & a & a & 410 & a & a & 411 & a & a & 412 & a & a & 413 & a & a & 414 & a & a & 415 & a & a & 416 & a & a & 417 & a & a & 418 & a & a & 419 & a & a & 420 & a & a & 421 & a & a & 422 & a & a & 423 & a & a & 424 & a & a & 425 & a & a & 426 & a & a & 427 & a & a & 428 & a & a & 429 & a & a & 430 & a & a & 431 & a & a & 432 & a & a & 433 & a & a & 434 & a & a & 435 & a & a & 436 & a & a & 437 & a & a & 438 & a & a & 439 & a & a & 440 & a & a & 441 & a & a & 442 & a & a & 443 & a & a & 444 & a & a & 445 & a & a & 446 & a & a & 447 & a & a & 448 & a & a & 449 & a & a & 450 & a & a & 451 & a & a & 452 & a & a & 453 & a & a & 454 & a & a & 455 & a & a & 456 & a & a & 457 & a & a & 458 & a & a & 459 & a & a & 460 & a & a & 461 & a & a & 462 & a & a & 463 & a & a & 464 & a & a & 465 & a & a & 466 & a & a & 467 & a & a & 468 & a & a & 469 & a & a & 470 & a & a & 471 & a & a & 472 & a & a & 473 & a & a & 474 & a & a & 475 & a & a & 476 & a & a & 477 & a & a & 478 & a & a & 479 & a & a & 480 & a & a & 481 & a & a & 482 & a & a & 483 & a & a & 484 & a & a & 485 & a & a & 486 & a & a & 487 & a & a & 488 & a & a & 489 & a & a & 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