R

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## Contents

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## Chapter 1

R

 $\operatorname{ETL}$ 

shiny

```
R
Email: 598253220@qq.com
: https://www.yuque.com/zyufei
sessionInfo()
#> R version 4.0.3 (2020-10-10)
#> Platform: x86_64-w64-mingw32/x64 (64-bit)
#> Running under: Windows 10 x64 (build 19041)
#> Matrix products: default
#>
#> locale:
#> [1] LC_COLLATE=Chinese (Simplified)_China.936
#> [2] LC_CTYPE=Chinese (Simplified)_China.936
#> [3] LC_MONETARY=Chinese (Simplified)_China.936
#> [4] LC_NUMERIC=C
#> [5] LC_TIME=Chinese (Simplified)_China.936
#> attached base packages:
                                               datasets methods
#> [1] stats
              graphics grDevices utils
                                                                  base
#>
#> loaded via a namespace (and not attached):
\# [1] compiler\_4.0.3 magrittr\_2.0.1 bookdown\_0.22 htmltools\_0.5.1.1
```

6 CHAPTER 1.

#>	[5]	tools_4.0.3	$rstudioapi\_0.13$	yaml_2.2.1	$stringi_1.5.3$
#>	[9]	$rmarkdown\_2.7$	$knitr\_1.32$	$stringr\_1.4.0$	$digest\_0.6.27$
#>	[13]	xfun_0.22	$rlang\_0.4.10$	$evaluate\_0.14$	

## Chapter 2

## data.table

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data.table
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           Python
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                data.table
 https://cran.r-project.org/web/packages/data.table/vignettes/datatable-packages/data.table/vignettes/datatable-packages/data.table/vignettes/datatable-packages/data.table/vignettes/datatable-packages/data.table/vignettes/datatable-packages/data.table/vignettes/datatable-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/data-packages/
 intro.html
 data.table
                               API
2.1
                data.table
                                                                                                                         data.table
 1.
                                  the Installation wiki
 install.packages("data.table")
 # latest development version:
 data.table::update.dev.pkg()
```