| 4 rows × 7 columns  enguins.head  ound method NDFrame.head Adelie Torgersen Biscoe Gentoo Biscoe   | of species 39.1 39.5 40.3 NaN 36.7 NaN 46.8 50.4 45.2 49.9  | island bill_lengt<br>18.7<br>17.4<br>18.0<br>NaN<br>19.3<br><br>NaN<br>14.3<br>15.7<br>14.8<br>16.1  | n_mm bill_depth_mm flipper_length_mm \ 181.0 186.0 195.0 NaN 193.0 NaN 215.0 222.0 213.0   |  |
|--|---|--|--|--|
| body_mass_g sex 3750.0 Male 3800.0 Female 3250.0 Female NaN NaN 3450.0 Female 9 NaN NaN 0 4850.0 Female 1 5750.0 Male 2 5200.0 Female 2 5200.0 Female 3 5400.0 Male  | 49.9  | 16.1   | 213.0  |  |
| enguins.columns  dex(['species', 'island'  | , 'bill_length_mm'<br>, 'body_mass_g', '  | sex'],   |  |  |
| peciesAndSex = ['species enguins[speciesAndSex].va   |   | (kind='bar')   |  |  |
| engulis[speciesAnusex].va  |   |  |  |  |
| .ll_depth_mm 17ipper_length_mm 200dy_mass_g 4201gype: float64  | 921930<br>151170<br>915205<br>754386  |  |  |  |
| enguins  species island bill_len  Adelie Torgersen   |   | m flipper_length_mm bc 7 181.0 4 186.0 0 195.0 N NaN 3 193.0 6 190.0   |  |  |
| Adelie Torgersen  | 39.2 19. 34.1 18. 42.0 20. 37.8 17. 37.8 17. 41.1 17. 38.6 21. 34.6 21. 36.6 17. 38.7 19.   | 1 193.0<br>2 190.0<br>1 186.0<br>3 180.0<br>6 182.0<br>2 191.0<br>1 198.0<br>8 185.0   | 4675.0 Male 3475.0 NaN 4250.0 NaN 3300.0 NaN 3700.0 NaN 3200.0 Female 3800.0 Male 4400.0 Male 3700.0 Female  |  |
| 7 Adelie Torgersen 8 Adelie Torgersen 9 Adelie Torgersen 0 Adelie Biscoe 1 Adelie Biscoe 2 Adelie Biscoe 3 Adelie Biscoe 4 Adelie Biscoe 5 Adelie Biscoe 6 Adelie Biscoe   | 42.5       20.         34.4       18.         46.0       21.         37.8       18.         37.7       18.         35.9       19.         38.2       18.         38.8       17.         35.3       18.         40.6       18.   | 4 184.0<br>5 194.0<br>3 174.0<br>7 180.0<br>2 189.0<br>1 185.0<br>2 180.0<br>9 187.0   | 4500.0 Male 3325.0 Female 4200.0 Male 3400.0 Female 3600.0 Male 3800.0 Female 3950.0 Male 3800.0 Female 3800.0 Male  |  |
| Adelie Biscoe  Adelie Biscoe  Adelie Biscoe  Adelie Biscoe  Adelie Dream   | 40.5 17. 37.9 18. 40.5 18. 39.5 16. 37.2 18. 39.5 17. 40.9 18. 36.4 17. 39.2 21. 38.8 20.   | 6 172.0 9 180.0 7 178.0 1 178.0 8 188.0 9 184.0 0 195.0 1 196.0  | 320.0 Female 3150.0 Female 3950.0 Male 3250.0 Female 3900.0 Male 3300.0 Female 3900.0 Male 3305.0 Female 3900.0 Male 3325.0 Female 4150.0 Male   |  |
| Adelie Dream   | 42.2       18.         37.6       19.         39.8       19.         36.5       18.         40.8       18.         36.0       18.         44.1       19.         37.0       16.         39.6       18.         41.1       19.   | 3 181.0<br>1 184.0<br>0 182.0<br>4 195.0<br>5 186.0<br>7 196.0<br>9 185.0<br>8 190.0   | 3550.0 Female 3300.0 Female 4650.0 Male 3150.0 Female 3900.0 Male 3100.0 Female 4400.0 Male 3000.0 Female 4600.0 Male  |  |
| Adelie Dream  Adelie Dream  Adelie Dream  Adelie Dream  Adelie Biscoe  | 37.5 18. 36.0 17. 42.3 21. 39.6 17. 40.1 18. 35.0 17. 42.0 19. 34.5 18. 41.4 18. 39.0 17.   | 9 190.0<br>2 191.0<br>7 186.0<br>9 188.0<br>9 190.0<br>5 200.0<br>1 187.0<br>6 191.0   | 2975.0 NaN 3450.0 Female 4150.0 Male 3500.0 Female 4300.0 Male 3450.0 Female 4050.0 Male 2900.0 Female 3700.0 Male 3550.0 Female   |  |
| Adelie Biscoe  | 40.6       18.         36.5       16.         37.6       19.         35.7       16.         41.3       21.         37.6       17.         41.1       18.         36.4       17.         41.6       18.         35.5       16.   | 6 181.0 1 194.0 9 185.0 1 195.0 0 185.0 2 192.0 1 184.0 0 192.0  | 3800.0 Male 2850.0 Female 3750.0 Male 3150.0 Female 4400.0 Male 3600.0 Female 4050.0 Male 2850.0 Female 3950.0 Female  |  |
| Adelie Biscoe Adelie Torgersen  | 41.1       19.         35.9       16.         41.8       19.         33.5       19.         39.7       18.         39.6       17.         45.8       18.         35.5       17.         42.8       18.         40.9       16.   | 6 190.0 4 198.0 0 190.0 4 190.0 2 196.0 9 197.0 5 190.0 5 195.0  | 4100.0 Male 3050.0 Female 4450.0 Male 3600.0 Female 3900.0 Male 3550.0 Female 4150.0 Male 3700.0 Female 4250.0 Male  |  |
| Adelie Torgersen Adelie Dream Adelie Dream Adelie Dream Adelie Dream   | 37.2 19. 36.2 16. 42.1 19. 34.6 17. 42.9 17. 36.7 18. 35.1 19. 37.3 17. 41.3 20. 36.3 19.   | 4 184.0 1 187.0 1 195.0 2 189.0 6 196.0 8 187.0 4 193.0 8 191.0 3 194.0 5 190.0  | 3900.0 Male 3550.0 Female 4000.0 Male 3200.0 Female 4700.0 Male 3800.0 Female 4200.0 Male 3350.0 Female 3350.0 Female 3600.0 Male  |  |
| Adelie Dream  | 36.9       18.         38.3       19.         38.9       18.         35.7       18.         41.1       18.         34.0       17.         39.6       18.         36.2       17.         40.8       18.         38.1       18.   | 6 189.0 2 189.0 8 190.0 0 202.0 1 205.0 1 185.0 1 186.0 3 187.0 9 208.0 6 190.0  | 3500.0 Female 3950.0 Male 3600.0 Female 3550.0 Female 4300.0 Male 3400.0 Female 4450.0 Male 3300.0 Female 4300.0 Female  |  |
| Adelie Dream Adelie Dream Adelie Dream Adelie Dream Adelie Biscoe  | 40.3       18.         33.1       16.         43.2       18.         35.0       17.         41.0       20.         37.7       16.         37.8       20.         37.9       18.         39.7       18.         38.6       17.   | 5       196.0         1       178.0         5       192.0         9       192.0         0       203.0         0       183.0         0       190.0         6       193.0         9       184.0         2       199.0  | 4350.0 Male 2900.0 Female 4100.0 Male 3725.0 Female 4725.0 Male 3075.0 Female 4250.0 Male 2925.0 Female 3550.0 Male  |  |
| Adelie Biscoe  | 38.2 20. 38.1 17. 43.2 19. 38.1 16. 45.6 20. 39.7 17. 42.2 19. 39.6 20. 42.7 18. 38.6 17.   | 0 181.0<br>0 197.0<br>5 198.0<br>3 191.0<br>7 193.0<br>5 197.0<br>7 191.0<br>3 196.0<br>0 188.0  | 390.0 Male 3175.0 Female 4775.0 Male 3825.0 Female 4600.0 Male 3200.0 Female 4275.0 Male 3900.0 Female 4075.0 Male   |  |
| Adelie Torgersen   | 37.3 20. 35.7 17. 41.1 18. 36.2 17. 37.7 19. 40.2 17. 41.4 18. 35.2 15. 40.6 19. 38.8 17.   | 0 189.0<br>6 189.0<br>2 187.0<br>8 198.0<br>0 176.0<br>5 202.0<br>9 186.0<br>0 199.0<br>6 191.0  | 375.0 Male 3350.0 Female 3325.0 Male 3150.0 Female 3500.0 Male 3450.0 Female 3875.0 Male 3050.0 Female 3050.0 Female   |  |
| Adelie Torgersen  Adelie Dream   | 41.5       18.         39.0       17.         44.1       18.         38.5       17.         43.1       19.         36.8       18.         37.5       18.         38.1       17.         41.1       17.         35.6       17.         40.2       20.  | 1       191.0         0       210.0         9       190.0         2       197.0         5       193.0         5       199.0         6       187.0         5       190.0         5       191.0  | 4300.0 Male 3050.0 Female 4000.0 Male 3325.0 Female 3500.0 Male 3500.0 Female 4475.0 Male 3425.0 Female 3900.0 Male  |  |
| Adelie Dream   | 40.2 20.3 37.0 16.3 39.7 17.4 40.2 17.4 40.6 17.3 32.1 15.4 40.7 17.3 37.3 16.3 39.0 18.3 39.2 18.3 36.6 18.6   | 5       185.0         9       193.0         1       193.0         2       187.0         5       188.0         0       190.0         8       192.0         7       185.0         6       190.0  | 3400.0 Female 4250.0 Male 3400.0 Female 3475.0 Male 3050.0 Female 3725.0 Male 3650.0 Male 4250.0 Male 4250.0 Male  |  |
| Adelie Dream  Adelie Dream  Adelie Dream  Adelie Dream  Adelie Dream  Chinstrap Dream  | 36.0 17. 37.8 18. 36.0 17. 41.5 18. 46.5 17. 50.0 19. 51.3 19. 45.4 18. 52.7 19. 45.2 17.   | 8 195.0 1 193.0 1 187.0 5 201.0 9 192.0 5 196.0 2 193.0 7 188.0 8 197.0  | 3450.0 Female 3750.0 Male 3700.0 Female 4000.0 Male 3500.0 Female 3900.0 Male 3650.0 Male 3525.0 Female 3725.0 Male  |  |
| Chinstrap Dream  | 46.1 18. 51.3 18. 46.0 18. 51.3 19. 46.6 17. 51.7 20. 47.0 17. 52.0 18. 45.9 17. 50.5 19.   | 2 178.0<br>2 197.0<br>9 195.0<br>9 198.0<br>8 193.0<br>3 194.0<br>3 185.0<br>1 201.0<br>1 190.0  | 3250.0 Female 3750.0 Male 4150.0 Female 3700.0 Male 3800.0 Female 3775.0 Male 3700.0 Female 4050.0 Male  |  |
| Chinstrap Dream  | 50.3       20.         58.0       17.         46.4       18.         49.2       18.         42.4       17.         48.5       17.         43.2       16.         50.6       19.         46.7       17.         52.0       19.   | 0 197.0<br>8 181.0<br>6 190.0<br>2 195.0<br>3 181.0<br>5 191.0<br>6 187.0<br>4 193.0<br>9 195.0  | 3300.0 Male 3700.0 Female 3450.0 Female 4400.0 Male 3600.0 Female 3400.0 Male 2900.0 Female 3800.0 Male 3800.0 Male 3800.0 Male  |  |
| Chinstrap Dream  | 50.5 18. 49.5 19. 46.4 17. 52.8 20. 40.9 16. 54.2 20. 42.5 16. 51.0 18. 49.7 18. 47.5 16.   | 0 200.0<br>8 191.0<br>0 205.0<br>6 187.0<br>8 201.0<br>7 187.0<br>8 203.0<br>6 195.0   | 3400.0 Female 3800.0 Male 3700.0 Female 4550.0 Male 3200.0 Female 4300.0 Male 3350.0 Female 4100.0 Male 3600.0 Male 3900.0 Female  |  |
| Chinstrap Dream  | 47.6       18.         52.0       20.         46.9       16.         53.5       19.         49.0       19.         46.2       17.         50.9       19.         45.5       17.         50.9       17.         50.8       18.   | 7 210.0<br>6 192.0<br>9 205.0<br>5 210.0<br>5 187.0<br>1 196.0<br>0 196.0<br>9 196.0   | 3850.0 Female 4800.0 Male 2700.0 Female 4500.0 Male 3950.0 Female 3650.0 Female 3550.0 Male 3675.0 Female 3675.0 Female  |  |
| Chinstrap Dream  | 50.1 17. 49.0 19. 51.5 18. 49.8 17. 48.1 16. 51.4 19. 45.7 17. 50.7 19. 42.5 17.  | 6 212.0 7 187.0 3 198.0 4 199.0 0 201.0 3 193.0 7 203.0 3 187.0 8 197.0  | 3400.0 Female 4300.0 Male 3250.0 Male 3675.0 Female 3325.0 Female 3950.0 Male 3600.0 Female 4050.0 Male 3350.0 Female  |  |
| OB Chinstrap Dream   | 45.2 16. 49.3 19. 50.2 18. 45.6 19. 51.9 19. 46.8 16. 45.7 17. 55.8 19. 43.5 18. 49.6 18. 50.8 19.  | 9 203.0<br>8 202.0<br>4 194.0<br>5 206.0<br>5 189.0<br>0 195.0<br>8 207.0<br>1 202.0<br>2 193.0  | 3250.0 Female 4050.0 Male 3800.0 Male 3525.0 Female 3950.0 Male 3650.0 Female 4000.0 Male 3400.0 Female 4100.0 Male  |  |
| 29 Chinstrap Dream 20 Gentoo Biscoe 21 Gentoo Biscoe 22 Gentoo Biscoe 23 Gentoo Biscoe 24 Gentoo Biscoe 25 Gentoo Biscoe 26 Gentoo Biscoe 27 Gentoo Biscoe 28 Gentoo Biscoe  | 50.0 18. 46.1 13. 50.0 16. 48.7 14. 50.0 15. 47.6 14. 46.5 13. 45.4 14. 46.7 15. 43.3 13.   | 7 198.0<br>2 211.0<br>3 230.0<br>1 210.0<br>2 218.0<br>5 215.0<br>5 210.0<br>6 211.0<br>3 219.0  | 3775.0 Female 4500.0 Female 5700.0 Male 4450.0 Female 5700.0 Male 4500.0 Female 5400.0 Male 4800.0 Female 4800.0 Female 4800.0 Female  |  |
| Gentoo Biscoe  | 46.8 15. 40.9 13. 49.0 16. 45.5 13. 48.4 14. 45.8 14. 49.3 15. 42.0 13. 49.2 15. 46.2 14.   | 4 215.0 7 214.0 1 216.0 7 214.0 6 213.0 6 210.0 7 217.0 5 210.0 2 221.0  | 5150.0 Male 4650.0 Female 5550.0 Male 4650.0 Female 5850.0 Male 4200.0 Female 5850.0 Male 4150.0 Female 6300.0 Male  |  |
| Gentoo Biscoe  | 48.7 15. 50.2 14. 45.1 14. 46.5 14. 46.3 15. 42.9 13. 46.1 15. 44.5 14. 47.8 15. 48.2 14.   | 3 218.0<br>5 215.0<br>5 213.0<br>8 215.0<br>1 215.0<br>1 215.0<br>3 216.0<br>0 215.0   | 5350.0 Male 5700.0 Male 5000.0 Female 4400.0 Female 5050.0 Male 5000.0 Female 5100.0 Male 4100.0 NaN 5650.0 Male   |  |
| Gentoo Biscoe  | 50.0 15. 47.3 15. 42.8 14. 45.1 14. 59.6 17. 49.1 14. 48.4 16. 42.6 13. 44.4 17. 44.0 13.   | 3 222.0<br>2 209.0<br>5 207.0<br>0 230.0<br>8 220.0<br>3 220.0<br>7 213.0<br>3 219.0   | 5550.0 Male 5250.0 Male 4700.0 Female 5050.0 Female 6050.0 Male 5150.0 Female 5400.0 Male 4950.0 Female 5400.0 Male 4950.0 Female  |  |
| Gentoo Biscoe  | 48.7 15. 42.7 13. 49.6 16. 45.3 13. 49.6 15. 50.5 15. 43.6 13. 45.5 13. 50.5 15. 44.9 13. 45.2 15.  | 7 208.0<br>0 225.0<br>7 210.0<br>0 216.0<br>9 222.0<br>9 217.0<br>9 210.0<br>9 225.0<br>3 213.0  | 5350.0 Male 3950.0 Female 5700.0 Male 4300.0 Female 4750.0 Male 4900.0 Female 4200.0 Female 5400.0 Male 5300.0 Male  |  |
| Gentoo Biscoe  | 45.2 15. 46.6 14. 48.5 14. 45.1 14. 50.1 15. 46.5 14. 45.0 15. 43.8 13. 45.5 15. 43.2 14. 50.4 15.  | 2 210.0<br>1 220.0<br>4 210.0<br>0 225.0<br>4 217.0<br>4 220.0<br>9 208.0<br>0 220.0<br>5 208.0  | 5300.0       Male         4850.0       Female         5300.0       Male         4400.0       Female         5000.0       Male         4900.0       Female         5050.0       Male         4300.0       Female         5050.0       Male         4450.0       Female         5550.0       Male  |  |
| Gentoo Biscoe  | 50.4 15. 45.3 13. 46.2 14. 45.7 13. 54.3 15. 45.8 14. 49.8 16. 46.2 14. 49.5 16. 43.5 14. 50.7 15.  | 8 208.0<br>9 221.0<br>9 214.0<br>7 231.0<br>2 219.0<br>8 230.0<br>4 214.0<br>2 229.0<br>2 220.0  | 5550.0 Male 4200.0 Female 5300.0 Male 4400.0 Female 5650.0 Male 4700.0 Female 5700.0 Male 4650.0 NaN 5800.0 Male 4700.0 Female   |  |
| Gentoo Biscoe  | 50.7       15.         47.7       15.         46.4       15.         48.2       15.         46.5       14.         46.4       15.         48.6       16.         47.5       14.         51.1       16.         45.2       13.         45.2       16.  | 0 216.0<br>6 221.0<br>6 221.0<br>8 217.0<br>0 216.0<br>0 230.0<br>2 209.0<br>3 220.0<br>8 215.0  | 5550.0       Male         4750.0       Female         5000.0       Male         5100.0       Male         5200.0       Female         4700.0       Female         6000.0       Male         4750.0       Female         5950.0       Male  |  |
| Gentoo Biscoe  | 45.2 16. 49.1 14. 52.5 15. 47.4 14. 50.0 15. 44.9 13. 50.8 17. 43.4 14. 51.3 14. 47.5 14. 52.1 17.  | 5 212.0<br>6 221.0<br>6 212.0<br>9 224.0<br>8 212.0<br>3 228.0<br>4 218.0<br>2 218.0<br>0 212.0  | 5950.0 Male 4625.0 Female 5450.0 Male 4725.0 Female 5350.0 Male 4750.0 Female 5600.0 Male 4600.0 Female 5300.0 Male 4875.0 Female  |  |
| Gentoo Biscoe  | 47.5       15.         52.2       17.         45.5       14.         49.5       16.         44.5       14.         50.8       15.         49.4       15.         46.9       14.         48.4       14.  | 0       218.0         1       228.0         5       212.0         1       224.0         7       214.0         7       226.0         8       216.0         6       222.0         4       203.0  | 4950.0 Female 5400.0 Male 4750.0 Female 5650.0 Male 4850.0 Female 5200.0 Male 4925.0 Male 4875.0 Female  |  |
| Gentoo Biscoe  | 51.1       16.         48.5       15.         55.9       17.         47.2       15.         49.1       15.         47.3       13.         46.8       16.         41.7       14.         53.4       15.         43.3       14.         48.1       15.  | 0 219.0<br>0 228.0<br>5 215.0<br>0 228.0<br>8 216.0<br>1 215.0<br>7 210.0<br>8 219.0<br>0 208.0  | 5250.0       Male         4850.0       Female         5600.0       Male         4975.0       Female         5500.0       Male         4725.0       NaN         5500.0       Male         4700.0       Female         5500.0       Male         4575.0       Female         5500.0       Male   |  |
| Gentoo Biscoe  | 48.1 15. 50.5 15. 49.8 15. 43.5 15. 51.5 16. 46.2 14. 55.1 16. 44.5 15. 48.8 16. 47.2 13. NaN Na  | 2 216.0<br>9 229.0<br>2 213.0<br>3 230.0<br>1 217.0<br>0 230.0<br>7 217.0<br>2 222.0<br>7 214.0  | 5500.0         Male           5000.0         Female           5950.0         Male           4650.0         Female           5500.0         Male           4375.0         Female           5850.0         Male           4875.0         NaN           6000.0         Male           4925.0         Female           NaN         NaN   |  |
| <b>0</b> Adelie Torgersen  | th_mm bill_depth_mm<br>39.1 18.7  | 7 222.0 8 212.0 1 213.0 lay.max_columns", 16   | _mass_g  |  |
| Adelie Torgersen  Adelie Torgersen  Adelie Torgersen  Adelie Torgersen  Adelie Torgersen  Gentoo Biscoe  Gentoo Biscoe  Gentoo Biscoe  Gentoo Biscoe  Arows × 7 columns  | 39.5 17.4 40.3 18.0 NaN NaN 36.7 19.3 NaN NaN 46.8 14.3 50.4 15.7 45.2 14.8 49.9 16.1   | 195.0 NaN 193.0 NaN 215.0 222.0 212.0  | 3800.0 Female 3250.0 Female NaN NaN 3450.0 Female NaN NaN 4850.0 Female 5750.0 Male 5200.0 Female  |  |
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| equirement already satisfication alleady satisfication already sat | ied: nbformat>=4.4 ied: pywin32>=1.0; ied: webencodings ied: six>=1.9.0 in ied: packaging in ied: nest-asyncio ied: jupyter-clien ied: async-generat ied: MarkupSafe>=0 ied: jsonschema!=2 ied: pyparsing>=2. ied: pyzmq>=13 in ied: pyzmq>=13 in ied: python-dateut ied: setuptools in ied: pyrsistent>=0 ied: attrs>=17.4.0 | in d:\python\anacon sys_platform == "wi in d:\python\anaconda d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d or in d:\python\anaconda\d ils in d:\python\anaconda\d ils in d:\python\anaconda\d ils in d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d il>=2.1 in d:\python\d d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d in d:\python\anaconda\d  | a\lib\site-packages (from nbconvert) (5.0.8)   |  |
| equirement already satisfionte: you may need to rest   |   |  |  |  |