```
In[ ]:=   data = Import[
            "C:\\Users\\Owner\\Desktop\\ACM Spring 23 Research Coding Challenge\\6 class csv.csv"]

Out[ ]=
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           Star type, Star color, Spectral Class}, {3068, 0.0024, 0.17, 16.12, 0, Red, M},
          {3042, 0.0005, 0.1542, 16.6, 0, Red, M}, {2600, 0.0003, 0.102, 18.7, 0, Red, M},
          {2800, 0.0002, 0.16, 16.65, 0, Red, M}, {1939, 0.000138, 0.103, 20.06, 0, Red, M},
          {2840, 0.00065, 0.11, 16.98, 0, Red, M}, {2637, 0.00073, 0.127, 17.22, 0, Red, M},
          {2600, 0.0004, 0.096, 17.4, 0, Red, M}, {2650, 0.00069, 0.11, 17.45, 0, Red, M},
          {2700, 0.00018, 0.13, 16.05, 0, Red, M}, {3600, 0.0029, 0.51, 10.69, 1, Red, M},
          {3129, 0.0122, 0.3761, 11.79, 1, Red, M}, {3134, 0.0004, 0.196, 13.21, 1, Red, M},
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          {3340, 0.0038, 0.24, 13.07, 1, Red, M}, {2799, 0.0018, 0.16, 14.79, 1, Red, M},
          {3692, 0.00367, 0.47, 10.8, 1, Red, M}, {3192, 0.00362, 0.1967, 13.53, 1, Red, M},
          {3441, 0.039, 0.351, 11.18, 1, Red, M}, {25000, 0.056, 0.0084, 10.58, 2, Blue White, B},
          {7740, 0.00049, 0.01234, 14.02, 2, White, A}, {7220, 0.00017, 0.011, 14.23, 2, White, F},
          {8500, 0.0005, 0.01, 14.5, 2, White, A}, {16500, 0.013, 0.014, 11.89, 2, Blue White, B},
          {12990, 0.000085, 0.00984, 12.23, 2, Yellowish White, F},
          {8570, 0.00081, 0.0097, 14.2, 2, Blue white, A},
          {7700, 0.00011, 0.0128, 14.47, 2, Yellowish White, F},
          {11790, 0.00015, 0.011, 12.59, 2, Yellowish White, F},
          {7230, 0.00008, 0.013, 14.08, 2, Pale yellow orange, F},
          {39000, 204000, 10.6, -4.7, 3, Blue, O}, {30000, 28840, 6.3, -4.2, 3, Blue-white, B},
          {15276, 1136, 7.2, -1.97, 3, Blue-white, B}, {9700, 74, 2.89, 0.16, 3, Whitish, B},
          {5800, 0.81, 0.9, 5.05, 3, yellow-white, F}, {8052, 8.7, 1.8, 2.42, 3, Whitish, A},
          {6757, 1.43, 1.12, 2.41, 3, yellow-white, F}, {6380, 1.35, 0.98, 2.93, 3, yellow-white, F},
          {5936, 1.357, 1.106, 4.46, 3, yellow-white, F},
          {5587, 0.819, 0.99, 5.03, 3, yellow-white, F}, {3826, 200000, 19, -6.93, 4, Red, M},
          {3365, 340000, 23, -6.2, 4, Red, M}, {3270, 150000, 88, -6.02, 4, Red, M},
          {3200, 195000, 17, -7.22, 4, Red, M}, {3008, 280000, 25, -6, 4, Red, M},
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          {3574, 200000, 89, -5.24, 4, Red, M}, {3625, 184000, 84, -6.74, 4, Red, M},
          {33750, 220000, 26, -6.1, 4, Blue, B}, {3490, 270000, 1520, -9.4, 5, Red, M},
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          {3749, 550000, 1648, -8.05, 5, Orange, M}, {3650, 310000, 1324, -7.79, 5, Red, M},
          {3450, 263000, 1349, -11.75, 5, Red, M}, {3660, 363000, 1673, -11.92, 5, Red, M},
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          {3535, 195000, 1546, -11.36, 5, Red, M}, {3341, 0.0056, 0.057, 16.23, 0, Red, M},
          {3432, 0.00067, 0.19, 16.94, 0, Red, M}, {2983, 0.00024, 0.094, 16.09, 0, Red, M},
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          {2871, 0.00072, 0.12, 19.43, 0, Red, M}, {3345, 0.021, 0.273, 12.3, 1, Red, M},
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          {3150, 0.0088, 0.35, 11.94, 1, Red, M}, {3550, 0.004, 0.291, 10.89, 1, Red, M},
          {3180, 0.001, 0.35, 11.76, 1, Red, M}, {2890, 0.0034, 0.24, 13.46, 1, Red, M},
          {3342, 0.0015, 0.307, 11.87, 1, Red, M}, {2621, 0.0006, 0.098, 12.81, 1, Red, M},
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{9675, 0.00045, 0.0109, 13.98, 2, Blue White, A},
{12 010, 0.00078, 0.0092, 12.13, 2, Blue White, B},
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{13 720, 0.00018, 0.00892, 12.97, 2, white, F}, {19 860, 0.0011, 0.0131, 11.34, 2, Blue, B},
{5300, 0.59, 0.91, 5.49, 3, yellow-white, F}, {4526, 0.153, 0.865, 6.506, 3, yellowish, K},
{4077, 0.085, 0.795, 6.228, 3, yellowish, K}, {4980, 0.357, 1.13, 4.78, 3, Yellowish, K},
{9030, 45, 2.63, 1.45, 3, Blue-white, A}, {11 250, 672, 6.98, -2.3, 3, Blue-white, A},
{5112, 0.63, 0.876, 4.68, 3, Orange-Red, K}, {7720, 7.92, 1.34, 2.44, 3, yellow-white, F},
{12 098, 689, 7.01, 0.02, 3, Blue-white, A}, {36 108, 198 000, 10.2, -4.4, 3, Blue, O},
{33 300, 240 000, 12, -6.5, 4, Blue, B}, {40 000, 813 000, 14, -6.23, 4, Blue, O},
{23 000, 127 000, 36, -5.76, 4, Blue, O}, {17 120, 235 000, 83, -6.89, 4, Blue, O},
{11 096, 112 000, 12, -5.91, 4, Blue, O}, {14 245, 231 000, 42, -6.12, 4, Blue, O},
{24 630, 363 000, 63, -5.83, 4, Blue, O}, {12 893, 184 000, 36, -6.34, 4, Blue, O},
{24 345, 142 000, 57, -6.24, 4, Blue, O}, {33 421, 352 000, 67, -5.79, 4, Blue, O},
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{3615, 200 000, 1635, -11.33, 5, Red, M}, {3399, 117 000, 1486, -10.92, 5, Red, M},
{3610, 132 000, 1522, -10.86, 5, Red, M}, {3553, 145 000, 1324, -11.03, 5, Red, M},
{4015, 282 000, 1534, -11.39, 5, Red, K}, {3625, 74 000, 876, -10.25, 5, Red, M},
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{3218, 0.00054, 0.11, 20.02, 0, Red, M}, {3146, 0.00015, 0.0932, 16.92, 0, Red, M},
{3511, 0.00064, 0.109, 17.12, 0, Red, M}, {3225, 0.00076, 0.121, 19.63, 0, Red, M},
{2935, 0.00087, 0.0932, 16.88, 0, Red, M}, {2861, 0.00019, 0.0899, 16.71, 0, Red, M},
{2856, 0.000896, 0.0782, 19.56, 0, Red, M}, {2731, 0.000437, 0.0856, 18.09, 0, Red, M},
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{14 520, 0.00082, 0.00972, 11.92, 2, Blue White, B},
{11 900, 0.00067, 0.00898, 11.38, 2, Blue white, B},
{8924, 0.00028, 0.00879, 14.87, 2, Blue white, A},
{12 912, 0.00071, 0.00945, 12.83, 2, Blue white, B},
{14 732, 0.00011, 0.00892, 12.89, 2, white, F}, {7723, 0.00014, 0.00878, 14.81, 2, White, A},
{12 984, 0.00088, 0.00996, 11.23, 2, Blue White, B},
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{28 700, 16 790, 6.4, -4.09, 3, Blue-white, B}, {26 140, 14 520, 5.49, -3.8, 3, Blue-white, B},
{20 120, 4720, 6.78, -3.4, 3, Blue-white, B}, {13 023, 998, 6.21, -1.38, 3, Blue-white, A},
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{26 000, 316 000, 1679, -9.1, 5, Blue, B}, {3600, 240 000, 1190, -7.89, 5, Red, M},
{3614, 145 000, 1553, -7.71, 5, Red, M}, {18 000, 200 000, 1045, -8.3, 5, Blue, O},
{11 000, 170 000, 1779, -9.9, 5, Blue-white, B},
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{2968, 0.000461, 0.119, 17.45, 0, Red, M}, {3484, 0.000551, 0.0998, 16.67, 0, Red, M},
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{3324, 0.0065, 0.471, 12.78, 1, Red, M}, {3463, 0.0027, 0.675, 14.776, 1, Red, M},
{16 790, 0.0014, 0.0121, 12.87, 2, Blue, B}, {15 680, 0.00122, 0.0114, 11.92, 2, Blue, B},
{14 982, 0.00118, 0.0113, 12.23, 2, Blue, B}, {13 340, 0.00109, 0.0116, 12.9, 2, Blue, B},
{18 340, 0.00134, 0.0124, 11.22, 2, Blue, B}, {19 920, 0.00156, 0.0142, 11.34, 2, Blue, B},
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{17 920, 0.00111, 0.0106, 11.66, 2, Blue, B}, {19 360, 0.00125, 0.00998, 11.62, 2, Blue, B},
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{13 089, 788, 5.992, -0.12, 3, Blue-white, A}, {22 012, 6748, 6.64, -2.55, 3, Blue-white, B},
{34 190, 198 200, 6.39, -4.57, 3, Blue, O}, {32 460, 173 800, 6.237, -4.36, 3, Blue, O},
{9320, 29, 1.91, 1.236, 3, Blue-white, A}, {19 400, 10 920, 6.03, -3.08, 3, Blue-white, B},
{17 140, 883, 5.653, -2.64, 3, Blue-white, B}, {8250, 9.25, 1.93, -0.98, 3, yellow-white, F},
{23 678, 244 290, 35, -6.27, 4, Blue, O}, {12 749, 332 520, 76, -7.02, 4, Blue, O},
{9383, 342 940, 98, -6.98, 4, Blue, O}, {23 440, 537 430, 81, -5.975, 4, Blue, O},
{16 787, 246 730, 62, -6.35, 4, Blue, O}, {18 734, 224 780, 46, -7.45, 4, Blue, O},
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{24 145, 382 993, 1494, -8.84, 5, Blue-white, B},
{38 234, 272 830, 1356, -9.29, 5, Blue, O}, {32 489, 648 430, 1948.5, -10.84, 5, Blue, O},
{27 739, 849 420, 1252, -7.59, 5, Blue-white, B},
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{30 839, 834 042, 1194, -10.63, 5, Blue, O}, {8829, 537 493, 1423, -10.73, 5, White, A},
{9235, 404 940, 1112, -11.23, 5, White, A}, {37 882, 294 903, 1783, -7.8, 5, Blue, O}}
```

In[ ]:= **Graph[data]**

Out[ ]=

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Graph[{{Temperature (K), Luminosity(L/Lo), Radius(R/Ro), Absolute magnitude(Mv),
    Star type, Star color, Spectral Class}, {3068, 0.0024, 0.17, 16.12, 0, Red, M},
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{3042, 0.0005, 0.1542, 16.6, 0, Red, M}, {2600, 0.0003, 0.102, 18.7, 0, Red, M},
{2800, 0.0002, 0.16, 16.65, 0, Red, M}, {1939, 0.000138, 0.103, 20.06, 0, Red, M},
{2840, 0.00065, 0.11, 16.98, 0, Red, M}, {2637, 0.00073, 0.127, 17.22, 0, Red, M},
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{3441, 0.039, 0.351, 11.18, 1, Red, M}, {25 000, 0.056, 0.0084, 10.58, 2, Blue White, B},
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{12 990, 0.000085, 0.00984, 12.23, 2, Yellowish White, F},
{8570, 0.00081, 0.0097, 14.2, 2, Blue white, A},
{7700, 0.00011, 0.0128, 14.47, 2, Yellowish White, F},
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{6757, 1.43, 1.12, 2.41, 3, yellow-white, F}, {6380, 1.35, 0.98, 2.93, 3, yellow-white, F},
{5936, 1.357, 1.106, 4.46, 3, yellow-white, F},
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{33 750, 220 000, 26, -6.1, 4, Blue, B}, {3490, 270 000, 1520, -9.4, 5, Red, M},
{3750, 283 000, 1260, -7.63, 5, Red, M}, {3834, 272 000, 1183, -9.2, 5, Red, M},
{3749, 550 000, 1648, -8.05, 5, Orange, M}, {3650, 310 000, 1324, -7.79, 5, Red, M},
{3450, 263 000, 1349, -11.75, 5, Red, M}, {3660, 363 000, 1673, -11.92, 5, Red, M},
{3450, 174 000, 1284, -11.28, 5, Red, M}, {3752, 209 000, 955, -11.24, 5, Red, M},
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{2871, 0.00072, 0.12, 19.43, 0, Red, M}, {3345, 0.021, 0.273, 12.3, 1, Red, M},
{3607, 0.022, 0.38, 10.12, 1, Red, M}, {3304, 0.0085, 0.18, 13.2, 1, Red, M},
{3150, 0.0088, 0.35, 11.94, 1, Red, M}, {3550, 0.004, 0.291, 10.89, 1, Red, M},
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{3158, 0.00135, 0.161, 13.98, 1, Red, M}, {7100, 0.00029, 0.012, 14.09, 2, White-Yellow, F},
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{13 720, 0.00018, 0.00892, 12.97, 2, white, F}, {19 860, 0.0011, 0.0131, 11.34, 2, Blue, B},
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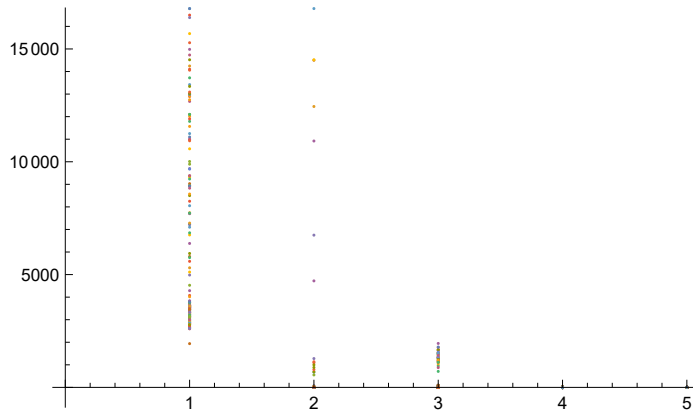
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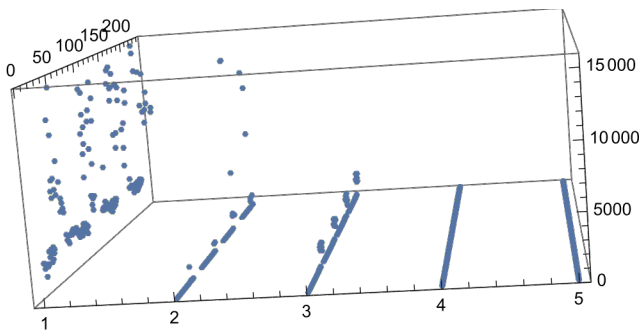
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Out[ ]=

This table shows the different star types from 1 to 5 and what temperature each star has. Looks like the most common star type is star type 1: Red Dwarf.

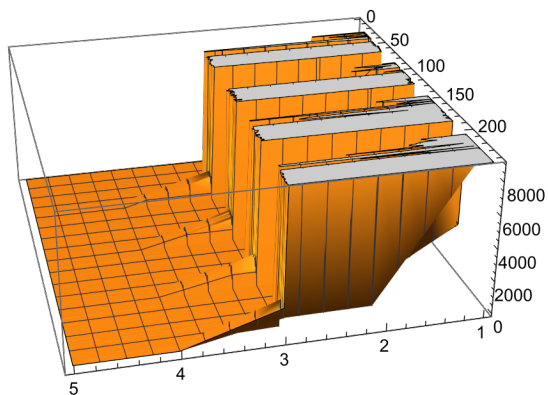*In[ ]:=* **ListPointPlot3D[data]**

Out[ ]=

Looks like the bigger the star, the lower the tempature and lumosity becomes.

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Out[ ]=

In deeper depth; looks like the higher the start type, the less tempature and luminosity. Looks like there is a couple of gaps around between 50, 100, 150, and 200 in terms of lumosity.