

Python Code

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6        "metadata": {},
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8          "
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\\n",
32               "0           1001         adarsh           HR           15         41834
\\n",
33               "1           1002   pratyush singh   Marketing           13         38047
\\n",
34               "2           1003             Amit           IT           1         46105
\\n",
35               "3           1004             Priya   Marketing           9         95766
\\n",
36               "4           1005             Karan   Marketing           7         35707
\\n",
37               "\\n",
38               "   Customer_Satisfaction  \\n",
39               "0                        20  \\n",
40               "1                        15  \\n",
41               "2                        7  \\n",
42               "3                        10  \\n",
43               "4                        9  \\n",
44               "<class 'pandas.core.frame.DataFrame'>\\n",
45               "RangeIndex: 100 entries, 0 to 99\\n",

```

```

46     "Data columns (total 6 columns):\n",
47     " #   Column                               Non-Null Count  Dtype  \n",
48     "---  -
-----  -
-----  \n",
49     " 0   Employee_ID                 100 non-null   int64  \n",
50     " 1   Employee_Name               100 non-null   object \n",
51     " 2   Department                  100 non-null   object \n",
52     " 3   Experience_Years             100 non-null   int64  \n",
53     " 4   Monthly_Sales                100 non-null   int64  \n",
54     " 5   Customer_Satisfaction        100 non-null   int64  \n",
55     "dtypes: int64(4), object(2)\n",
56     "memory usage: 4.8+ KB\n",
57     "None\n"
58 ]
59 }
60 ],
61 "source": [
62     "df=pd.read_csv(r\"c:\\Users\\yadit\\Downloads\\adarsh data sheet .csv\")\n",
63     "print(df.head())\n",
64     "print(df.info())"
65 ]
66 },
67 {
68     "cell_type": "markdown",
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70     "metadata": {},
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72         "Question 1.Load the dataset and display the first 10 rows"
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79     "metadata": {},
80     "outputs": [
81         {
82             "data": {
83                 "text/html": [
84                     "<div>\n",
85                     "<style scoped>\n",
86                     "    .dataframe tbody tr th:only-of-type {\n",
87                     "        vertical-align: middle;\n",
88                     "    }\n",
89                     "\n",
90                     "    .dataframe tbody tr th {\n",
91                     "        vertical-align: top;\n",
92                     "    }\n",
93                     "\n",
94                     "    .dataframe thead th {\n",
95                     "        text-align: right;\n",
96                     "    }\n",
97                     "</style>\n",
98                     "<table border=\"1\" class=\"dataframe\">\n",
99                     "  <thead>\n",
100                    "    <tr style=\"text-align: right;\">\n",

```

```

101         <th></th>\n",
102         <th>Employee_ID</th>\n",
103         <th>Employee_Name</th>\n",
104         <th>Department</th>\n",
105         <th>Experience_Years</th>\n",
106         <th>Monthly_Sales</th>\n",
107         <th>Customer_Satisfaction</th>\n",
108     </tr>\n",
109 </thead>\n",
110 <tbody>\n",
111     <tr>\n",
112         <th>0</th>\n",
113         <td>1001</td>\n",
114         <td>adarsh</td>\n",
115         <td>HR</td>\n",
116         <td>15</td>\n",
117         <td>41834</td>\n",
118         <td>20</td>\n",
119     </tr>\n",
120     <tr>\n",
121         <th>1</th>\n",
122         <td>1002</td>\n",
123         <td>pratyush singh</td>\n",
124         <td>Marketing</td>\n",
125         <td>13</td>\n",
126         <td>38047</td>\n",
127         <td>15</td>\n",
128     </tr>\n",
129     <tr>\n",
130         <th>2</th>\n",
131         <td>1003</td>\n",
132         <td>Amit</td>\n",
133         <td>IT</td>\n",
134         <td>1</td>\n",
135         <td>46105</td>\n",
136         <td>7</td>\n",
137     </tr>\n",
138     <tr>\n",
139         <th>3</th>\n",
140         <td>1004</td>\n",
141         <td>Priya</td>\n",
142         <td>Marketing</td>\n",
143         <td>9</td>\n",
144         <td>95766</td>\n",
145         <td>10</td>\n",
146     </tr>\n",
147     <tr>\n",
148         <th>4</th>\n",
149         <td>1005</td>\n",
150         <td>Karan</td>\n",
151         <td>Marketing</td>\n",
152         <td>7</td>\n",
153         <td>35707</td>\n",
154         <td>9</td>\n",
155     </tr>\n",

```

```

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157         "</table>\n",
158         "</div>"
159     ],
160     "text/plain": [
161         "    Employee_ID    Employee_Name Department  Experience_Years  Monthly_Sales
162         \"0          1001          adarsh          HR              15              41834
163         \"1          1002  pratyush singh  Marketing              13              38047
164         \"2          1003          Amit            IT              1              46105
165         \"3          1004          Priya  Marketing              9              95766
166         \"4          1005          Karan  Marketing              7              35707
167         \"\n",
168         "    Customer_Satisfaction  \n",
169         \"0                  20  \n",
170         \"1                  15  \n",
171         \"2                   7  \n",
172         \"3                  10  \n",
173         \"4                   9  "
174     ]
175 },
176     "execution_count": 6,
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179 }
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182     "df.head(5)"
183 ]
184 },
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188     "metadata": {},
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191     ]
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197     "metadata": {},
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199         {
200             "name": "stdout",
201             "output_type": "stream",
202             "text": [
203                 "    Employee_ID  Experience_Years  Monthly_Sales  Customer_Satisfaction
204                 \"\n",

```

```

204         "count    100.000000    100.000000    100.000000    100.000000
\n",
205         "mean     1050.500000         8.450000    72030.750000         5.060000
\n",
206         "std       29.011492         4.349329    30111.719996         3.299281
\n",
207         "min      1001.000000         1.000000    20854.000000         1.000000
\n",
208         "25%      1025.750000         5.000000    44832.000000         3.000000
\n",
209         "50%      1050.500000         8.500000    72697.500000         5.000000
\n",
210         "75%      1075.250000        12.000000   101270.000000         7.250000
\n",
211         "max      1100.000000        15.000000   118506.000000        20.000000
\n"
212     ]
213 }
214 ],
215 "source": [
216     "print(df.describe())"
217 ]
218 },
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222     "id": "15ff490d",
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227     ]
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237             "output_type": "stream",
238             "text": [
239                 "(100, 6)\n"
240             ]
241         }
242     ],
243     "source": [
244         "print(df.shape)"
245     ]
246 },
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```

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253     ]
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262             "name": "stdout",
263             "output_type": "stream",
264             "text": [
265                 "[['Employee_ID', 'Experience_Years', 'Monthly_Sales', 'Customer_Satisfactio
n']]\n"
266             ]
267         }
268     ],
269     "source": [
270         "result = [['Employee_ID','Experience_Years','Monthly_Sales','Customer_Satisfac
tion']]\n",
271         "print(result)"
272     ]
273 },
274 {
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277     "metadata": {},
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291             "text": [
292                 "      Employee_ID      Employee_Name Department   Experience_Years   Monthly_Sales
\\n",
293                 "0          1001          adarsh          HR              15              41834
\n",
294                 "1          1002  pratyush singh   Marketing              13              38047
\n",
295                 "2          1003              Amit          IT              1              46105
\n",
296                 "3          1004              Priya  Marketing              9              95766
\n",
297                 "4          1005              Karan  Marketing              7              35707

```

```

\n",
298     "..         ...         ...         ...         ...         ..."
\n",
299     "95         1096         Megha     Finance         12         93656"
\n",
300     "96         1097         Pritam     Finance         12         59384"
\n",
301     "97         1098         Ramesh     Marketing        4         67254"
\n",
302     "98         1099         Shivani     Sales           14         41918"
\n",
303     "99         1100         Niraj      Marketing        14         105981"
\n",
304     "\n",
305     "    Customer_Satisfaction \n",
306     "0                20 \n",
307     "1                15 \n",
308     "2                7 \n",
309     "3                10 \n",
310     "4                9 \n",
311     "..            ... \n",
312     "95                6 \n",
313     "96                7 \n",
314     "97                2 \n",
315     "98                10 \n",
316     "99                2 \n",
317     "\n",
318     "[100 rows x 6 columns]\n"
319 ]
320 }
321 ],
322 "source": [
323     "result = df[df['Monthly_Sales'] > 20]\n",
324     "print(result)"
325 ]
326 },
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330     "metadata": {},
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333     ]
334 },
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341         {
342             "name": "stdout",
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344             "text": [
345                 "    Employee_ID Employee_Name Department  Experience_Years  Monthly_Sales

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```

\\n",
346      "5          1006      Divya      HR          9          41976
\n",
347      "14         1015      Anjali      HR          1          29474
\n",
348      "18         1019      Suman       HR          1          114856
\n",
349      "23         1024      Manoj       HR          10         86199
\n",
350      "31         1032      Monika      HR          1          71005
\n",
351      "46         1047      Shweta     HR          15         110084
\n",
352      "51         1052      Rohan     HR          10         107092
\n",
353      "52         1053      Ira       HR          7          70859
\n",
354      "54         1055      Krishna   HR          14         107455
\n",
355      "56         1057      Sunny     HR          11         90467
\n",
356      "66         1067      Niharika  HR          7          54698
\n",
357      "68         1069      Aarav     HR          4          42671
\n",
358      "72         1073      Sandeep   HR          5          106202
\n",
359      "76         1077      Prakash   HR          15         69811
\n",
360      "77         1078      Mitali    HR          11         22811
\n",
361      "79         1080      Jay       HR          4          92082
\n",
362      "80         1081      Vandana   HR          13         54754
\n",
363      "90         1091      Sujit     HR          9          108614
\n",
364      "92         1093      Shalini   HR          6          57504
\n",
365      "\n",
366      "      Customer_Satisfaction  \n",
367      "5          4  \n",
368      "14         3  \n",
369      "18         8  \n",
370      "23         4  \n",
371      "31         9  \n",
372      "46         8  \n",
373      "51         1  \n",
374      "52         3  \n",
375      "54         7  \n",
376      "56         6  \n",
377      "66         3  \n",
378      "68         3  \n",
379      "72         6  \n",
380      "76         8  \n",

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```

381         "77"                1  \n",
382         "79"                3  \n",
383         "80"                1  \n",
384         "90"               10  \n",
385         "92"                8  \n"
386     ]
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391     "print(result)"
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412                 "Employee_Name\n",
413                 "adarsh                1\n",
414                 "pratyush singh        1\n",
415                 "Amit                  1\n",
416                 "Priya                 1\n",
417                 "Karan                 1\n",
418                 "                    ..\n",
419                 "Megha                 1\n",
420                 "Pritam                1\n",
421                 "Ramesh                1\n",
422                 "Shivani               1\n",
423                 "Niraj                 1\n",
424                 "Name: count, Length: 100, dtype: int64\n"
425             ]
426         }
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429         "counts = df['Employee_Name'].value_counts()\n",
430         "print(counts)"
431     ]
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