**Libraries, Functions & Methods, Charts & Plot and Additional Analysis(EDA, Statistical) used and the snapshots for Q. 12, 74 (SQL related) :**

**Libraries. : (13 nos.)**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

1. Pandas
2. Numpy
3. re
4. regex
5. datetime
6. collections
7. Counter
8. sqlite3
9. Seaborn
10. matplotlib.pyplot
11. matplotlib.patches -: Ellipse, Polygon
12. ExcelWriter
13. ExcelFile

**Functions and Methods : Nos-78**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

1. pd.read\_excel()
2. sns.pairplot()
3. sns.heatmap()
4. corr()
5. iloc[]
6. np.arange()
7. plt.figure()
8. add\_axes()
9. plot()
10. set\_xlabel()
11. set\_ylabel()
12. set\_title()
13. to\_datetime()
14. boxplot()
15. jointplot()
16. pairplot()
17. set()
18. carplot()
19. merge()
20. loc[lamda ]
21. loc()
22. pie()
23. axis()
24. show()
25. explode
26. connect()
27. sql()
28. execute()
29. cursor()
30. print()
31. close()
32. isna()
33. sum()
34. fillna()
35. histplot()
36. dt.year
37. dt.date
38. dt.time
39. value\_counts()
40. index()
41. groupby()
42. list
43. tolist()
44. stack()
45. unstack()
46. count()
47. max()
48. dt.dates
49. for loop
50. upper()
51. read\_csv
52. findall()
53. scatterplot()
54. pivot\_table()
55. rege.split()
56. sort\_values()
57. min()
58. apply()
59. reset\_index()
60. spit()
61. countplot()
62. subplot()
63. xticks()
64. arange()
65. reshape()
66. dot()
67. rename()
68. pivot\_table()
69. contains()
70. use()
71. rcParams[]
72. drop()
73. using of user defined functions
74. bar()
75. set\_xticks()
76. max()
77. avg()
78. Counter()
79. timedelta64()

**Charts and Plots : Nos - 16**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

1. Pair Plot
2. Heat Maps
3. Simple plot with fig object
4. Box Plot
5. Joint Plot
6. Pair Plot with Hue
7. Bar Chart
8. Pie Chart
9. MultiPlotting on Same Canvas
10. MultiBar Chart
11. Line Chart
12. Hatched Bar Chart
13. Scatter Plot
14. Pie Chart Explode Section
15. Histogram Chart
16. Trendlines

**Additional Analysis(EDA, Statistical) :**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

The above summarizes the Additional Analysis(EDA, Statistical) we included in our Python Hackathon. The extra questions analysis and exploration is also present in Team\_8\_Pings\_with\_Python\_ExtraBonus file.

**Snap shots for Q.12 and Q74**

**Q 12. Connect to sql and write a query to get list of Provider names whose Providername is starting with letter T. (Attach screenshots for this question)**

**Q 74. Connect to sql and write a query to get Ambulatory visit record's year. (Attach screenshots for this question)**

**To push files to GitHub**

**Option 1 : Using GitBash which is a terminal mode.**

1. File in that path – ls
2. To go to a path – cd
3. To initialize – git init
4. To set the destination path – git remote add origin <gitLink> - https://github.com/KavanaKundapur/Team\_8\_Pings\_With\_Python.git
5. To – git remote -v
6. To add all files in this folder – git add .
7. To commit the changes – git commit -m “First commit”git git
8. To push the files in the indicated folder – git push origin master
9. For help – git help

**Option 2 : Install Github Desktop.**

Link to install : https://desktop.github.com

It has a GUI and we can navigate through it as needed to do any of the tasks.