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|  | 1) Write about function arguments used for reading csv/excel files. |
|  | 2) a) Explain Group-by function in Pandas?  b) What is the use of Pandas Aggregate Function? |
|  | 3) Write about regular expression and write the code to retrieve pattern on email address? |

4) Explain in detail about finding and treating null values

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|  | 5) Explain about Web scraping? Explain with an Example. |
|  | 6) Explain about Concatenation along Axis? Explain with example about concat function arguments? |
|  | 7) What is Hierarchical Indexing? Give examples. Explain about indexing with data frame’s columns? |

8) Explain about combining and merging Datasets? Write about different join type?

9) Write about detecting and filtering outliers?

10) Explain about a) removing duplicates b) transforming data using a function or mapping

11) a)How are iloc and loc different ?Give syntax and examples

b) How to set index to Pandas Data Frame?

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