Q1. How do you load a CSV file into a Pandas DataFrame?

**ANSWER:** We can load a CSV file into a Pandas DataFrame using the read\_csv() function from the Pandas library.

Q2. How do you check the data type of a column in a Pandas DataFrame?

**ANSWER:** We can check the data type of a column in a Pandas DataFrame using the dtypes attribute or the dtype method.

Q3. How do you select rows from a Pandas DataFrame based on a condition?

**ANSWER:** We can select rows from a Pandas DataFrame based on a condition by using boolean indexing.

Q4. How do you rename columns in a Pandas DataFrame?

**ANSWER:** We can rename columns in a Pandas DataFrame using the rename() method.

Q5. How do you drop columns in a Pandas DataFrame?

**ANSWER:** We can drop columns in a Pandas DataFrame using the drop() method.

Q6. How do you find the unique values in a column of a Pandas DataFrame?

**ANSWER:** We can find the unique values in a column of a Pandas DataFrame using the unique() method.

Q7. How do you find the number of missing values in each column of a Pandas DataFrame?

**ANSWER:** We can find the number of missing values in each column of a Pandas DataFrame using the isnull() and sum() methods.

Q8. How do you fill missing values in a Pandas DataFrame with a specific value?

**ANSWER:** We can fill missing values in a Pandas DataFrame with a specific value using the fillna() method.

Q9. How do you concatenate two Pandas DataFrames?

**ANSWER:** We can concatenate two Pandas DataFrames using the concat() method.

Q10. How do you merge two Pandas DataFrames on a specific column?

**ANSWER:** We can merge two Pandas DataFrames on a specific column using the merge() method.

Q11. How do you group data in a Pandas DataFrame by a specific column and apply an aggregation function?

**ANSWER:** We can group data in a Pandas DataFrame by a specific column and apply an aggregation function using the groupby() method.

Q12. How do you pivot a Pandas DataFrame?

**ANSWER:** We can pivot a Pandas DataFrame using the pivot() method.

Q13. How do you change the data type of a column in a Pandas DataFrame?

**ANSWER:** We can change the data type of a column in a Pandas DataFrame using the astype() method.

Q14. How do you sort a Pandas DataFrame by a specific column?

**ANSWER:** We can sort a Pandas DataFrame by a specific column using the sort\_values() method.

Q15. How do you create a copy of a Pandas DataFrame?

**ANSWER:** We can create a copy of a Pandas DataFrame using the copy() method.

Q16. How do you filter rows of a Pandas DataFrame by multiple conditions?

**ANSWER:** We can filter rows of a Pandas DataFrame by multiple conditions using the & (and) and | (or) operators to combine multiple conditions.

Q17. How do you calculate the mean of a column in a Pandas DataFrame?

**ANSWER:** We can calculate the mean of a column in a Pandas DataFrame using the mean() method

Q18. How do you calculate the standard deviation of a column in a Pandas DataFrame?

**ANSWER:** We can calculate the standard deviation of a column in a Pandas DataFrame using the std() method.

Q19. How do you calculate the correlation between two columns in a Pandas DataFrame?

**ANSWER:** We can calculate the correlation between two columns in a Pandas DataFrame using the corr() method.

Q20. How do you select specific columns in a DataFrame using their labels?

**ANSWER:** We can select specific columns in a Pandas DataFrame using their labels by passing a list of column labels to the indexing operator [].

Q21. How do you select specific rows in a DataFrame using their indexes?

**ANSWER:** We can select specific rows in a Pandas DataFrame using their indexes using the loc[] method.

Q22. How do you sort a DataFrame by a specific column?

**ANSWER:** We can sort a Pandas DataFrame by a specific column using the sort\_values() method.

Q23. How do you create a new column in a DataFrame based on the values of another column?

**ANSWER:** We can create a new column in a Pandas DataFrame based on the values of another column by using the indexing operator [] to assign a new Series to the DataFrame.

Q24. How do you remove duplicates from a DataFrame?

**ANSWER:** We can remove duplicates from a Pandas DataFrame using the drop\_duplicates() method.

Q25. What is the difference between .loc and .iloc in Pandas?

**ANSWER:** The main difference between .loc and .iloc is that .loc is used for indexing based on labels and .iloc is used for indexing based on integer positions.