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

**File=Pd.read\_csv(“<location of csv file>”)**

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

**X=Pd.dataframe(<table data>)**

**Print(x.types)**

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

**import pandas as pd  
  
record = {  
 'Name': ['Ankit', 'Amit', 'Aishwarya', 'Priyanka', 'Priya', 'Shaurya'],  
 'Age': [21, 19, 20, 18, 17, 21],  
 'Stream': ['Math', 'Commerce', 'Science', 'Math', 'Math', 'Science'],  
 'Percentage': [88, 92, 95, 70, 65, 78]}  
  
dataframe = pd.DataFrame(record)  
rslt\_df = dataframe.loc[dataframe['Percentage'] > 80]  
  
print('\nResult dataframe :\n', rslt\_df)**

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

**Dataframe.rename(column={‘’oldcolumn’:’newColumn’})**

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

**Df.drop([‘columnname1’,’columnename2’])**

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

**Df.<column-name>.unique()**

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

for col in df :  
 print(df[col].name,df[col].isnull().sum())

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

**Df.fillna(“changed value”,inplace=true)**

Q9. How do you concatenate two Pandas DataFrames?

**Result=Pd.concat([df1,df2])**

**Print(result)**

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

**result = df1.append(df2)**

**display(result)**

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

**gp=df.groupby("Priority")**

**for priority ,priority\_df in gp :  
 print(priority)  
 print(priority\_df['ETT'])**

Q12. How do you pivot a Pandas DataFrame?

**df = pd.DataFrame({'A': ['John', 'Boby', 'Mina'],**

**'B': ['Masters', 'Graduate', 'Graduate'],**

**'C': [27, 23, 21]})**

**Df.pivot([‘A’,’B’,’C’])**

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

**df.astype(<datatype>)**

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

**df.sort\_values('<column\_no>')**

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

**Res=Df.copy()**

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

import pandas as pd  
dataFrame = pd.DataFrame({'Name': [' RACHEL ', ' MONICA ', ' PHOEBE ',  
 ' ROSS ', 'CHANDLER', ' JOEY '],  
  
 'Age': [30, 35, 37, 33, 34, 30],  
  
 'Salary': [100000, 93000, 88000, 120000, 94000, 95000],  
  
 'JOB': ['DESIGNER', 'CHEF', 'MASUS', 'PALENTOLOGY',  
 'IT', 'ARTIST']})  
# filter dataframe  
print(  
 dataFrame.loc[(dataFrame['Salary'] >= 100000) & (dataFrame['Age'] < 40) & (dataFrame['JOB'].str.startswith('D')),  
 ['Name', 'JOB']])

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

**Df.mean()**

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

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

**data['column1'].corr(data['column2'])**

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

**Df[[[“<label-1>”,”<lable-2>”,”<label-3>”]]**

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

**df.iloc[“<row no>”]**

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

**df.sort\_values(by=[“<column no>”], ascending=False)**

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

Q24. How do you remove duplicates from a DataFrame?

**df.drop\_duplicates()**

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