

1. **Creating DataFrames from a Dictionary**
2. Concept: DataFrame creation
3. Skills: Constructing a DataFrame from a dictionary of lists
4. **Reading CSV Files into a DataFrame**
5. Concept: File I/O
6. Skills: Using `pd.read_csv()` to load data from CSV files
7. **Calculating Mean Values for Each Subject**
8. Concept: Data aggregation
9. Skills: Grouping data and calculating summary statistics (e.g., mean)
10. **Displaying Column Names**
11. Concept: Exploring DataFrames
12. Skills: Accessing DataFrame attributes and methods
13. **Selecting a Column**
14. Concept: Data selection
15. Skills: Indexing DataFrames to access specific columns
16. **Filtering Rows Based on Conditions**
17. Concept: Data filtering
18. Skills: Applying boolean indexing to filter rows
19. **Creating DataFrames from Lists**
20. Concept: DataFrame creation
21. Skills: Constructing a DataFrame from a list of lists (rows)
22. **Adding a New Column with Default Values**
23. Concept: DataFrame manipulation
24. Skills: Adding new columns and assigning default values
25. **Renaming Columns**
26. Concept: DataFrame modification
27. Skills: Renaming columns using `rename()` or direct assignment
28. **Dropping a Column**
 - Concept: DataFrame modification
 - Skills: Removing columns using `drop()`
29. **Finding Missing Values**
 - Concept: Data cleaning
 - Skills: Detecting missing values with `isnull()` and `sum()`

30. Replacing Missing Values with Column Mean

- Concept: Data cleaning
- Skills: Filling missing values using `fillna()` with mean values

31. Sorting DataFrame by Column

- Concept: Data sorting
- Skills: Sorting rows using `sort_values()`

32. Filtering Rows Based on a Range of Values

- Concept: Data filtering
- Skills: Filtering rows using conditions on a numeric column

33. Handling Dates in DataFrames

- Concept: Date manipulation
- Skills: Working with date formats and displaying dates

34. Selecting Rows with Maximum Values

- Concept: Data selection
- Skills: Filtering rows based on maximum values in a column

35. Combining DataFrames along Rows

- Concept: Data concatenation
- Skills: Merging DataFrames using `concat()`

36. Saving DataFrame to a CSV File

- Concept: File I/O
- Skills: Writing data to a CSV file using `to_csv()`

37. Applying a Discount to Prices and Creating a New Column

- Concept: Data manipulation
- Skills: Performing operations on columns and creating new columns

38. Generating Summary Statistics

- Concept: Data analysis
- Skills: Using `describe()` to get statistical summaries of the DataFrame