* Create a DataFrame from a JSON file and infer the schema.
* Perform a left join between two DataFrames.
* Use a window function to calculate the rank of employees based on their salaries within each department.
* Write a DataFrame to a Parquet file with partitioning by a specific column.
* Use the mapPartitions transformation to apply a function to each partition of the DataFrame.
* Implement a custom aggregation function using aggregateByKey.
* Perform a cross join between two DataFrames and filter the results based on a condition.
* Use the flatMap transformation to split each element of a DataFrame column into multiple rows.
* Create a DataFrame from an RDD and specify the schema manually.
* Use the reduceByKey transformation to sum values by key in a DataFrame.
* Perform a rolling average calculation using a window function.
* Use the foreachPartition action to write each partition of a DataFrame to a separate file.
* Implement a custom partitioner for an RDD and apply it to a DataFrame.
* Perform a union of two DataFrames with different schemas and handle the schema mismatch.
* Use the groupByKey transformation to group values by key and apply a custom aggregation function.
* Perform a right outer join between two DataFrames and handle null values in the result.
* Use the sampleBy transformation to perform stratified sampling on a DataFrame.
* Implement a custom UDF to perform complex string manipulations on a DataFrame column.