Ex. No.: 6

Reg. No.: 210701092

Importing JSON File and perform various Operations using HDFS and Python

emp.json:

```
Open > In the process of the process
```

process_data.py:

```
except ValueError as e:
top_5_earners = df.nlargest(5, 'salary')
skipped_df = df.iloc[2:]
filtered_df = df[df['department'] != 'IT']
filtered_json = filtered_df.to_json(orient='records')
         writer.write(filtered_json)
 except Exception as e:
 print(f"{projected_df}")
 print(f"Aggregation: Calculate total salary")
 print(f"Number of High Earners (>50000): {high_earners_count}")
 print(f"Skipped DataFrame (First 2 rows skipped): \n{skipped_df}")
print(f"Filtered \ DataFrame \ (IT \ department \ removed): \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ )
```

Output:

```
Limit: Top 5 highest salary
Top 5 Earners:
                    department
                                  salary
      name age
              40
                                    85000
                       Finance
       Bob
                                    80000
                      Marketing
     Diana
                                    75000
                   Engineering
  Charlie
                        Design
Skip: First 2 rows skipped
Skipped DataFrame (First 2 rows skipped):
      name age department salary
   Charlie 28 Design
Diana 35 HR
Eve 40 Finance
                                 65000
                                 75000
                                 85000
Remove: Employees from IT department removed Filtered DataFrame (IT department removed):
                    department salary
      name age
      Alice
                   Engineering
                                   70000
                      Marketing
       Bob
              45
                                   80000
   Charlie 28
                        Design
                                    65000
     Diana 35
                                   75000
        Eve
                        Finance
                                    85000
               40
```