SaiPrabath Chowdary S

Assignment 1

```
11:36 AM (3s)
                                                                    2: loading csv
   employee_df = spark.read.csv(data, header=True, inferSchema=True)
   employee_df.show(10)
 ▶ ■ employee_df: pyspark.sql.dataframe.DataFrame = [EmployeeID: integer, Name: string ... 3 more fields]
                   Name|Department|JoiningDate|Salary|
|EmployeeID|
                                 HR | 2021-01-15 | 55000 |
      1001
               John Doe
      1002
             Jane Smith
                                 IT| 2020-03-10| 62000|
      1003 | Emily Johnson | Finance | 2019-07-01 | 70000 |
      1004|Michael Brown| HR| 2018-12-22| 54000|
      1005 | David Wilson
                                  IT| 2021-06-25| 58000|
      1006 | Linda Davis | Finance | 2020-11-15 | 67000 |
      1007 James Miller | IT | 2019-08-14 | 65000 |
                                 HR | 2021-03-29 | 53000 |
      1008 | Barbara Moore
```

```
11:40 AM (1s)
                                                                                     3: cleaning data
  cleaned_df = employee_df.filter(employee_df.Salary >= 55000)
   cleaned df.show()
  from pyspark.sql.functions import year
   filtered_df = employee_df.filter(year(cleaned_df.JoiningDate) > 2020)
   filtered_df.show()
(2) Spark Jobs

    cleaned_df: pyspark.sql.dataframe.DataFrame = [EmployeeID: integer, Name: string ... 3 more fields]

 ▶ ■ filtered_df: pyspark.sql.dataframe.DataFrame = [EmployeeID: integer, Name: string ... 3 more fields]
|EmployeeID|
                Name|Department|JoiningDate|Salary|
              John Doe | HR | 2021-01-15 | 55000 |
      1001
                                IT| 2020-03-10| 62000|
      1002 Jane Smith
      1003|Emily Johnson| Finance| 2019-07-01| 70000|
                                 IT| 2021-06-25| 58000|
      1005 | David Wilson
      1006| Linda Davis| Finance| 2020-11-15| 67000|
      1007 James Miller
                             IT| 2019-08-14| 65000|
|EmployeeID|
                    Name | Department | JoiningDate | Salary |
              John Doe
                              HR | 2021-01-15 | 55000 |
      1005 | David Wilson
                                IT| 2021-06-25| 58000|
      1008 | Barbara Moore
                               HR | 2021-03-29 | 53000 |
```

