# **Coding challenge**

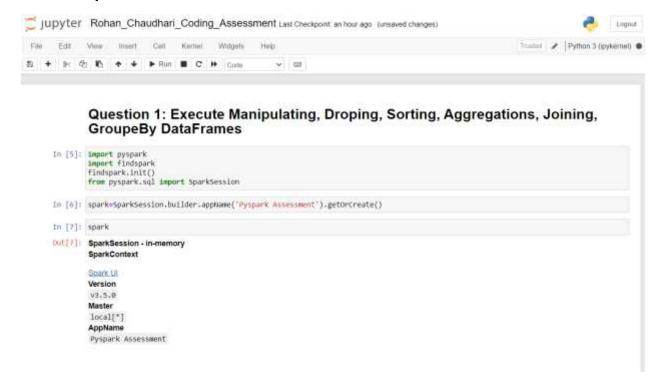
# **Python**

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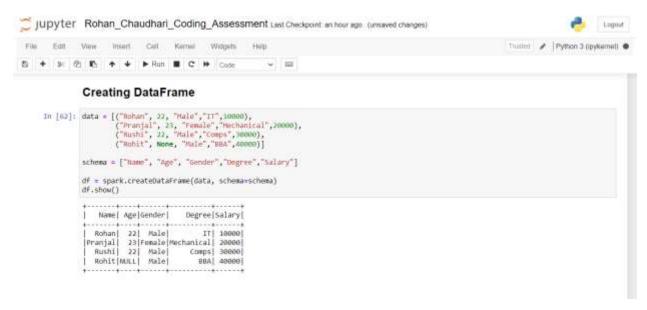
**Batch: Data Engineering 1** 

**Question1**: Execute Manipulating, Droping, Sorting, Aggregations, Joining, GroupeBy DataFrames

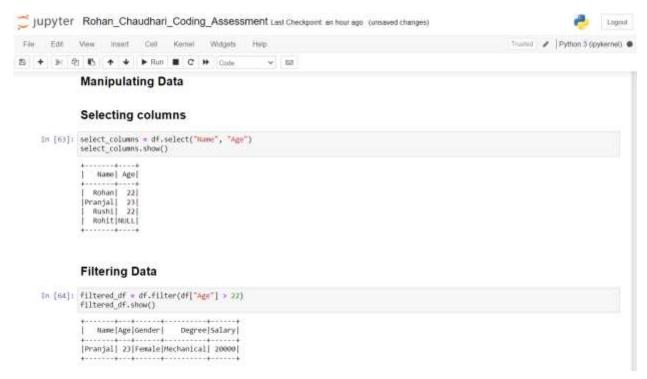
#### **Created Spark Session**



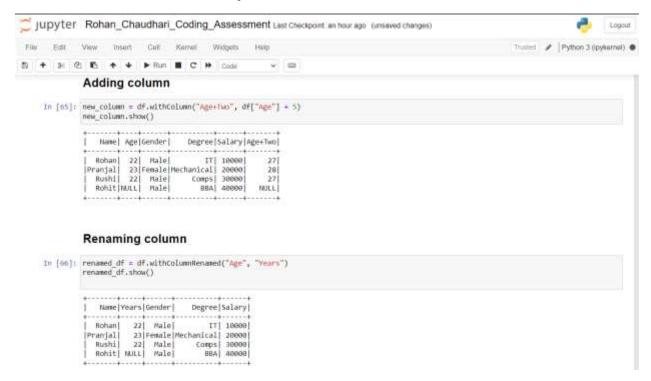
#### **Created DataFrame**



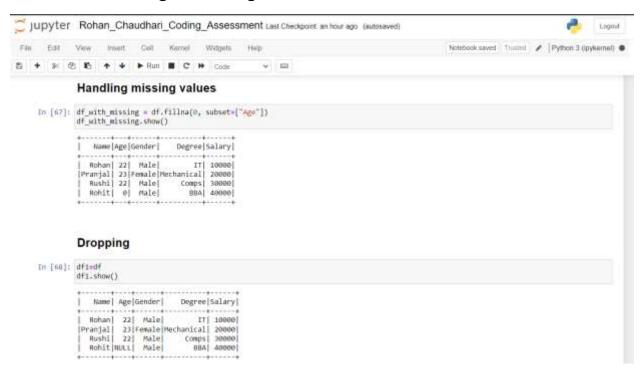
## Performed Operation as seletecting 2 columns and Filtering data based on age:



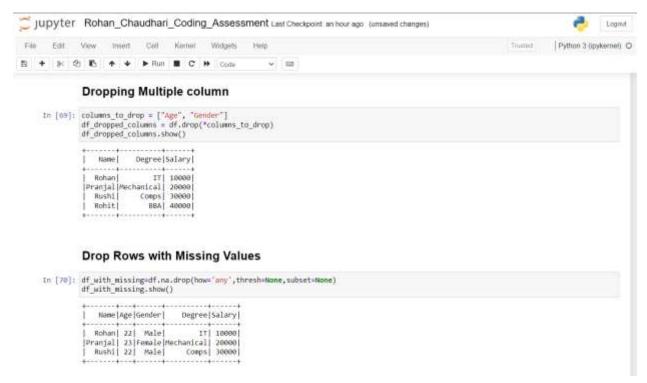
#### Added a new column with 5 years ahed & Renamed the column:



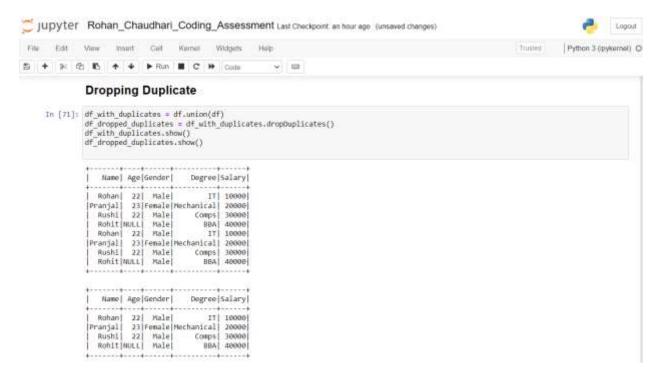
### Handled the missing value of age and filled it with 0:



#### Dropped More than 1 column & rows with missing value:

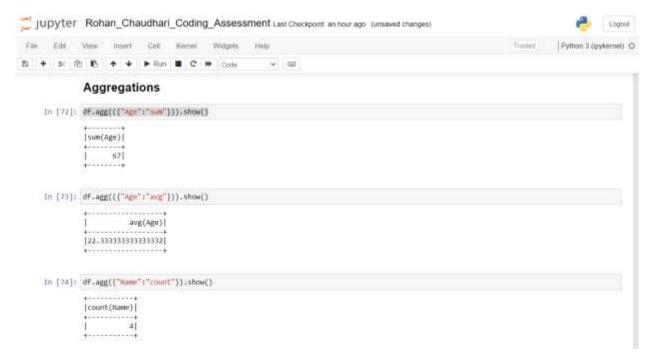


# Drop duplicate columns so for that first created duplicate rows with help of union:

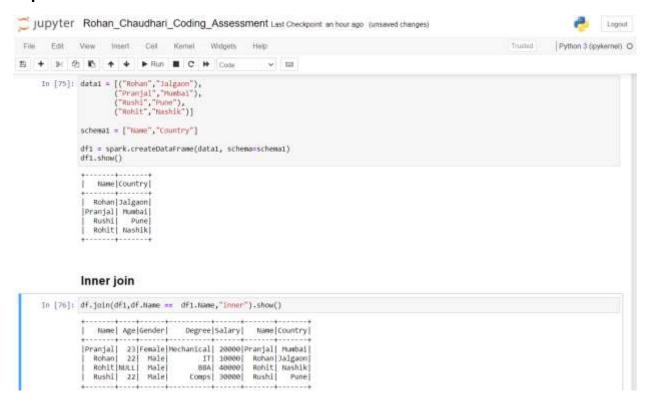


#### **Performed Aggregation Functions:**

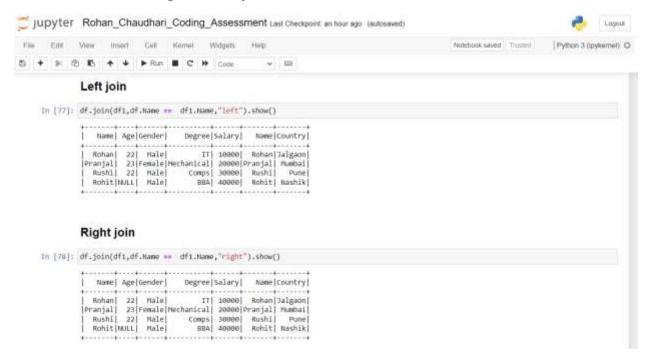
#### Sum, Average, Count:



# Created another dataframe for performing joins operation here same column kept is of Name:

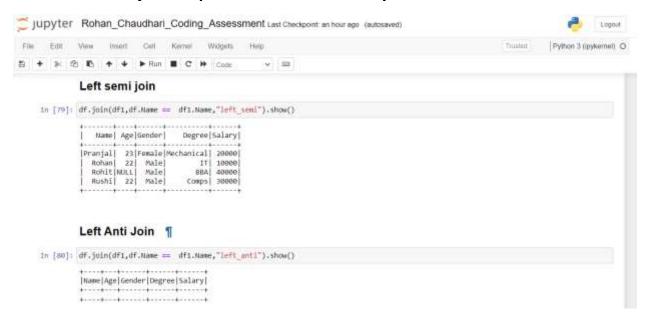


#### Performed Left & Right Join operation with common column as Name:



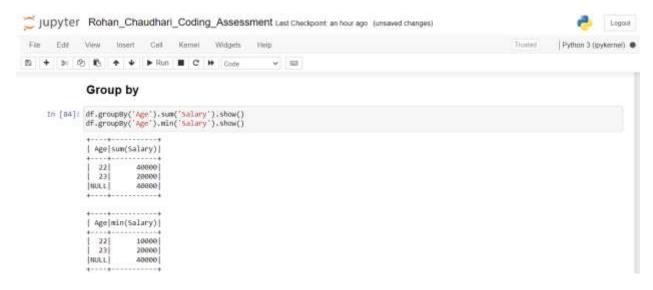
#### Performed Left Semi & Anti Join operations:

Here Anti join output is null because every data in both table is matched:

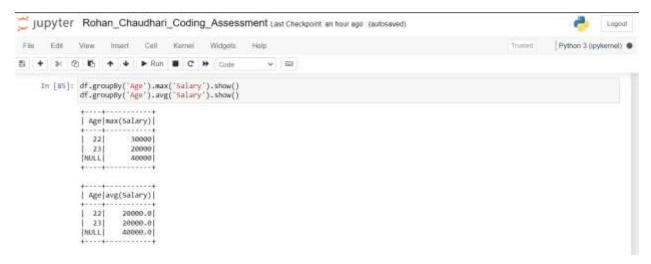


## **GroupBY Operations:**

## **Groupby with Sum & Min:**



#### **Groupby with Max& Avg:**



# Performed Pivot in groupBy with PIVOT kept as Gender:

