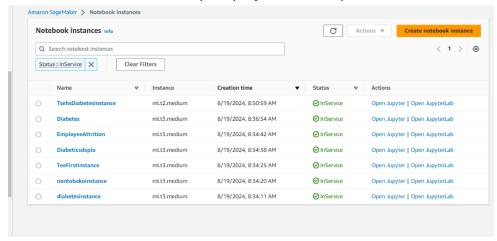
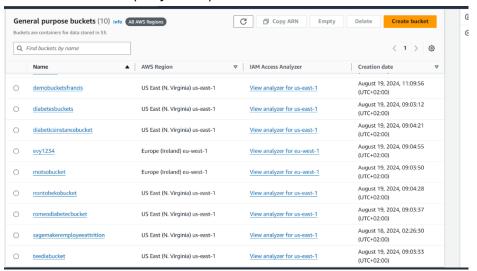
1. Create a notebook instance ("EmployeeAttrition")



2. Create a s3 bucket("evy1234")



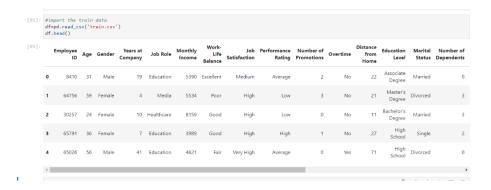
3. Create a notebook



4. Import necessary libraries

```
[86]: # Import Libraries
Import pandas as pd
Import numey as np
Import seaborn as sns
Import seaborn
Import seabor
```

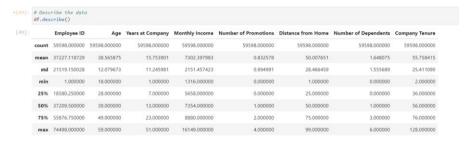
5. Import the train data



# 6. Check for missing values



#### 7. Describe the data

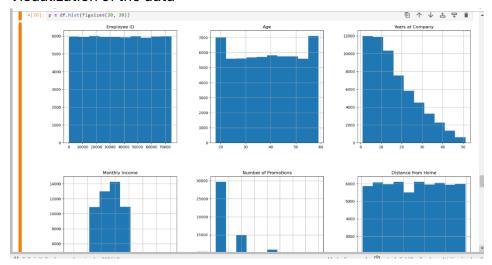


### 8. Checking for any repeating column names or same

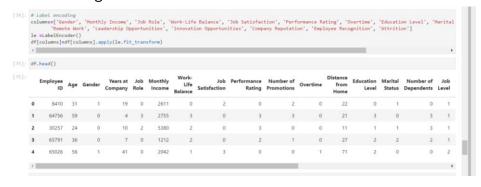
```
*[50]: *for column: in df.columns:
    if df(column).dtype == object:
        print(str(column).+ ': 'sstr(df[column].unique()))
        print(df(column).avabue_counts())]

Gender: ['Male' 'Female']
Male 32739
Female 26859
Name: Gender, dtype: int64
Job Role: ['Education' 'Media' 'Healthcare' 'Technology 'Finance']
Technology 15507
Healthcare 13642
Education 12480
Media 9574
Finance 8385
Name: Job Role, dtype: int64
bork-tife Balance: ['Excellent' 'Poor' 'Good' 'Fair']
Good 22528
Fair 18096
Excellent 180719
Pomer: Work-tife Balance, dtype: int64
Job Satisfaction: ['Medium' 'High' 'Very High' 'Low']
High 12111
Medium 11817
Low 5891
Name: Job Satisfaction, dtype: int64
Performance Rating: ['Average' 'Low' 'High' 'Below Average']
Average 35510
Low 2950
Low 2950
```

#### 9. Visualization of the data

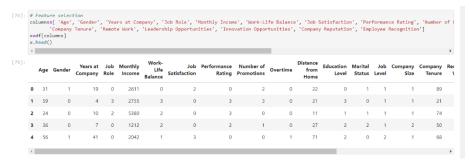


# 10. Label encoding



# 11. Predict target

#### 12. Features selection



### 13. Split the data and save the x\_train and x\_test

```
[77]: x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2)
[79]: print(x.shape, x_train.shape, x_test.shape)
(59598, 21) (47678, 21) (11920, 21)
[80]: # saving the data
x_train.to_csv('xtrain.csv', index=False, index_label='Now', header=False)
[81]: X_test.to_csv('x_test.csv', index=False, index_label='Row', header=False)
```