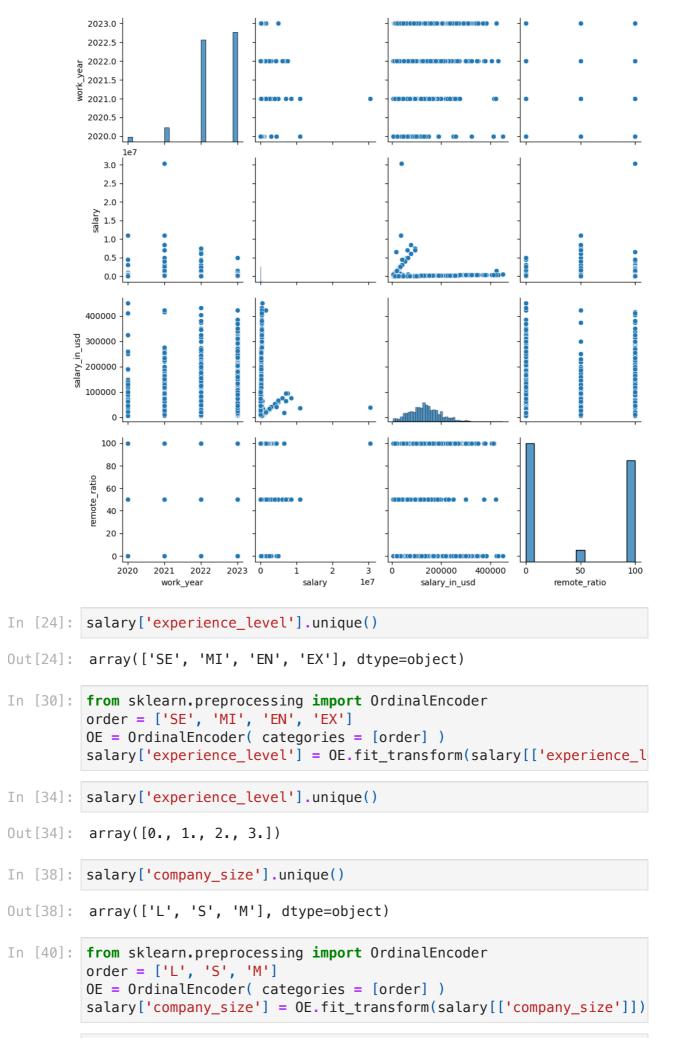
```
In [2]:
         import pandas as pd
         import matplotlib.pyplot as plt
         import numpy as np
         import seaborn as sns
         from mlxtend.frequent_patterns import apriori , association_rules
In [3]: salary = pd.read_csv('ds_salaries.csv')
In [4]: salary.head()
Out[4]:
            work_year experience_level employment_type job_title
                                                                    salary salary_
                                                          Principal
         0
                 2023
                                    SE
                                                      FT
                                                             Data
                                                                    80000
                                                          Scientist
                                                               ML
         1
                 2023
                                                      CT
                                                                    30000
                                    ΜI
                                                          Engineer
                                                               ML
         2
                 2023
                                    ΜI
                                                      CT
                                                                    25500
                                                          Engineer
                                                              Data
         3
                 2023
                                    SE
                                                                   175000
                                                          Scientist
                                                             Data
         4
                 2023
                                    SE
                                                      FT
                                                                   120000
                                                          Scientist
In [5]: sns.pairplot(salary)
```

Out[5]: <seaborn.axisgrid.PairGrid at 0x12e0730b0>



```
In [42]: salary.head()
Out[42]:
             work_year experience_level employment_type job_title
                                                                    salary salary_
                                                           Principal
          0
                  2023
                                    0.0
                                                       FT
                                                                    80000
                                                              Data
                                                           Scientist
                                                               ML
                  2023
                                    1.0
                                                                    30000
                                                          Engineer
                                                               ML
          2
                  2023
                                    1.0
                                                                    25500
                                                          Engineer
                                                              Data
                  2023
                                    0.0
                                                                    175000
          3
                                                       FT
                                                           Scientist
                                                              Data
          4
                  2023
                                    0.0
                                                       FT
                                                                    120000
                                                           Scientist
In [44]: from sklearn.preprocessing import StandardScaler
          from sklearn.linear_model import LinearRegression
          scaler = StandardScaler()
          X = scaler.fit_transform(salary[['experience_level','remote_ratio',
          y = salary['salary']
          model = LinearRegression()
          model.fit(X, y)
Out[44]:
              LinearRegression " "
         LinearRegression()
In [46]: y_pred = model.predict(X)
          from sklearn.metrics import mean_absolute_error
          score = mean_absolute_error(y,y_pred)
          print(score)
        128031.14717806886
 In [ ]:
```