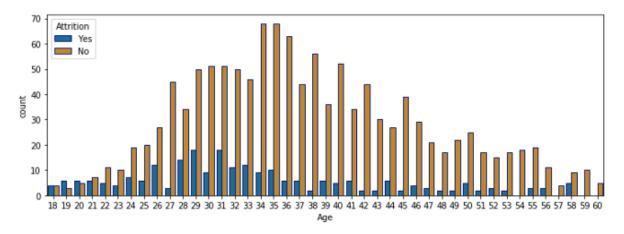
11. Show the number of employees that left and stayed at the company by age.



Here the age with the highest count of employee attrition is age 29 & 31.

The age with the highest retention is age 34 & 35.

12. Print all of the object data types and print their unique values.

```
Attrition : ['Yes' 'No']
       1233
Yes
        237
Name: Attrition, dtype: int64
BusinessTravel : ['Travel_Rarely' 'Travel_Frequently' 'Non-Travel']
Travel_Rarely
                       1043
                       277
Travel_Frequently
Non-Travel
                        150
Name: BusinessTravel, dtype: int64
Department : ['Sales' 'Research & Development' 'Human Resources']
Research & Development
                            961
                             446
Sales
Human Resources
                              63
Name: Department, dtype: int64
EducationField : ['Life Sciences' 'Other' 'Medical' 'Marketing' 'Technical Degree'
 'Human Resources']
Life Sciences
                      686
Medical
                      464
Marketing
                      159
Technical Degree
                      132
Other
                       82
Human Resources
                       27
Name: EducationField, dtype: int64
Gender : ['Female' 'Male']
          882
Male
         588
Female
Name: Gender, dtype: int64
JobRole : ['Sales Executive' 'Research Scientist' 'Laboratory Technician'
 'Manufacturing Director' 'Healthcare Representative' 'Manager' 'Sales Representative' 'Research Director' 'Human Resources']
 'Sales Representative'
Sales Executive
                                326
Research Scientist
                                292
Laboratory Technician
Manufacturing Director
                                259
                                145
Healthcare Representative
                                131
Manager
                                102
Sales Representative
                                 83
Research Director
Human Resources
Name: JobRole, dtype: int64
MaritalStatus : ['Single' 'Married' 'Divorced']
           673
Married
Single
             470
Divorced
             327
```

13. Remove unneeded columns.

14. Getting the correlation of the columns.

	Age	DailyRate	DistanceFromHome	Education	EnvironmentSatisfaction	HourlyRate
Age	1.000000	0.010661	-0.001686	0.208034	0.010146	0.024287
DailyRate	0.010661	1.000000	-0.004985	-0.016806	0.018355	0.023381
DistanceFromHome	-0.001686	-0.004985	1.000000	0.021042	-0.016075	0.031131
Education	0.208034	-0.016806	0.021042	1.000000	-0.027128	0.016775
EnvironmentSatisfaction	0.010146	0.018355	-0.016075	-0.027128	1.000000	-0.049857
HourlyRate	0.024287	0.023381	0.031131	0.016775	-0.049857	1.000000
Jobinvolvement	0.029820	0.046135	0.008783	0.042438	-0.008278	0.042861
JobLevel	0.509604	0.002966	0.005303	0.101589	0.001212	-0.027853
Job Satisfaction	-0.004892	0.030571	-0.003669	-0.011296	-0.006784	-0.071335
MonthlyIncome	0.497855	0.007707	-0.017014	0.094961	-0.006259	-0.015794
MonthlyRate	0.028051	-0.032182	0.027473	-0.026084	0.037600	-0.015297
NumCompaniesWorked	0.299635	0.038153	-0.029251	0.126317	0.012594	0.022157
PercentSalaryHike	0.003634	0.022704	0.040235	-0.011111	-0.031701	-0.009062
PerformanceRating	0.001904	0.000473	0.027110	-0.024539	-0.029548	-0.002172
RelationshipSatisfaction	0.053535	0.007846	0.006557	-0.009118	0.007665	0.001330
StockOptionLevel	0.037510	0.042143	0.044872	0.018422	0.003432	0.050263
TotalWorkingYears	0.680381	0.014515	0.004628	0.148280	-0.002693	-0.002334
Training Times Last Year	-0.019621	0.002453	-0.036942	-0.025100	-0.019359	-0.008548
WorkLifeBalance	-0.021490	-0.037848	-0.026556	0.009819	0.027627	-0.004607
YearsAtCompany	0.311309	-0.034055	0.009508	0.069114	0.001458	-0.019582
YearsInCurrentRole	0.212901	0.009932	0.018845	0.060236	0.018007	-0.024106
Years SinceLastPromotion	0.216513	-0.033229	0.010029	0.054254	0.016194	-0.026716
YearsWithCurrManager	0.202089	-0.026363	0.014406	0.069065	-0.004999	-0.020123

15. Visualizing the correlation by using a heat map.

