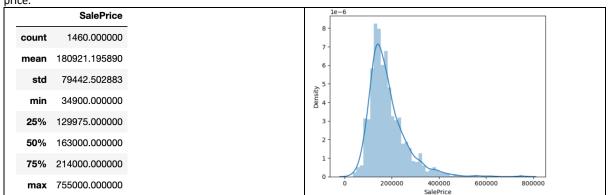
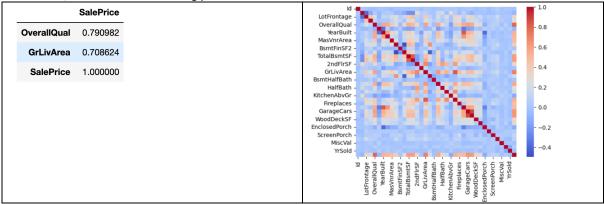
## **EDA Summary on Housing Price Dataset**

## **Observations:**

- The dataset contains 1460 observations with 81 variables.
- The target variable 'SalePrice' has a right-skewed distribution, indicating that most houses were sold for less than the median sale

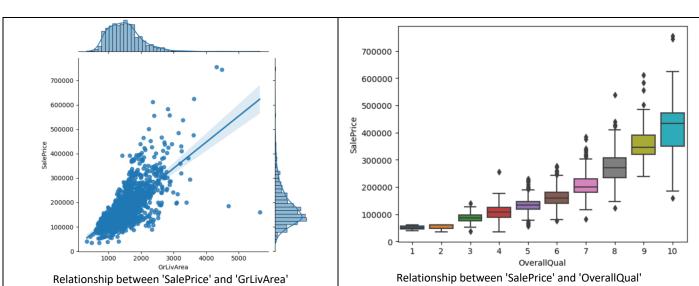


'OverallQual', and 'GrLivArea' are strongly correlated with 'SalePrice'.



• There are some missing values in the dataset, particularly in the variables 'Alley', 'PoolQC', 'Fence', and 'MiscFeature'.

#### Visualizations



# **Linear Regression**

Using the LinearRegression() function from sklearn linear model, we have,

Coefficients: [107.13035897] Intercept: 18569.025856487133

Hence, we can write the formula:

This means for every square feet of above grade (ground) living area, 'SalePrice' goes up by 107.13 dollar, vice versa. The interpretation of y-intercept does not make any sense in this case because we do not have any data with 0 'GrLivArea'.

## Conclusion

This EDA gives a good understanding of the Housing Price dataset and the relationships between the dependent variable ('SalePrice') and other independent variables. A basic predictive model for the housing prices is also created using linear regression.