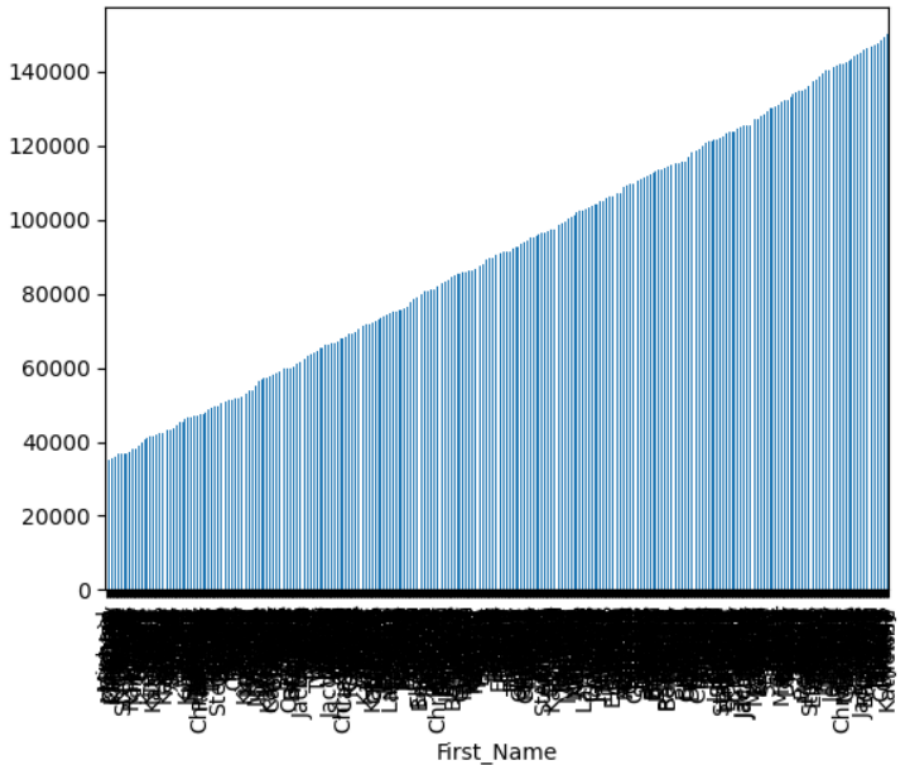
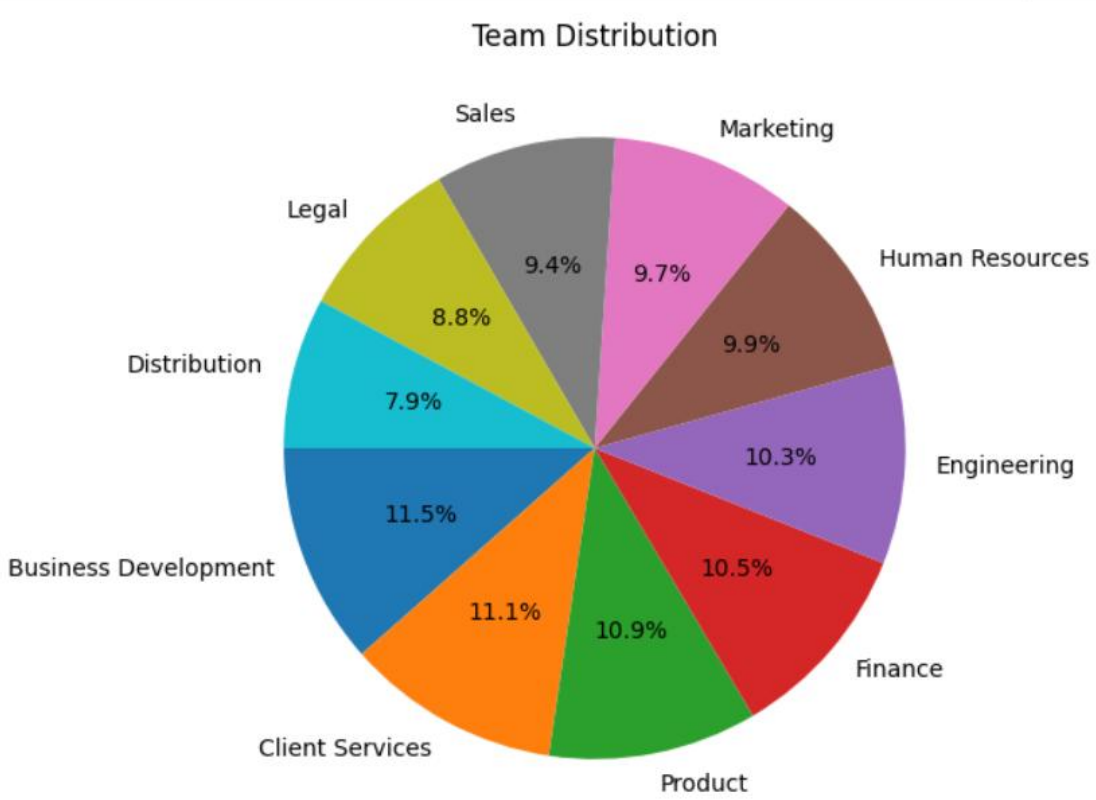
```
import matplotlib.pyplot as plt
```

```
plt.figure(figsize=(8,5))
df.dropna(subset=["First_Name"]).plot(kind="bar",x="First_Name",y="Salary",legend=False)
plt.title("Salary by Employee")
plt.ylabel("Salary")
plt.xticks(rotation=90)
plt.show()
```

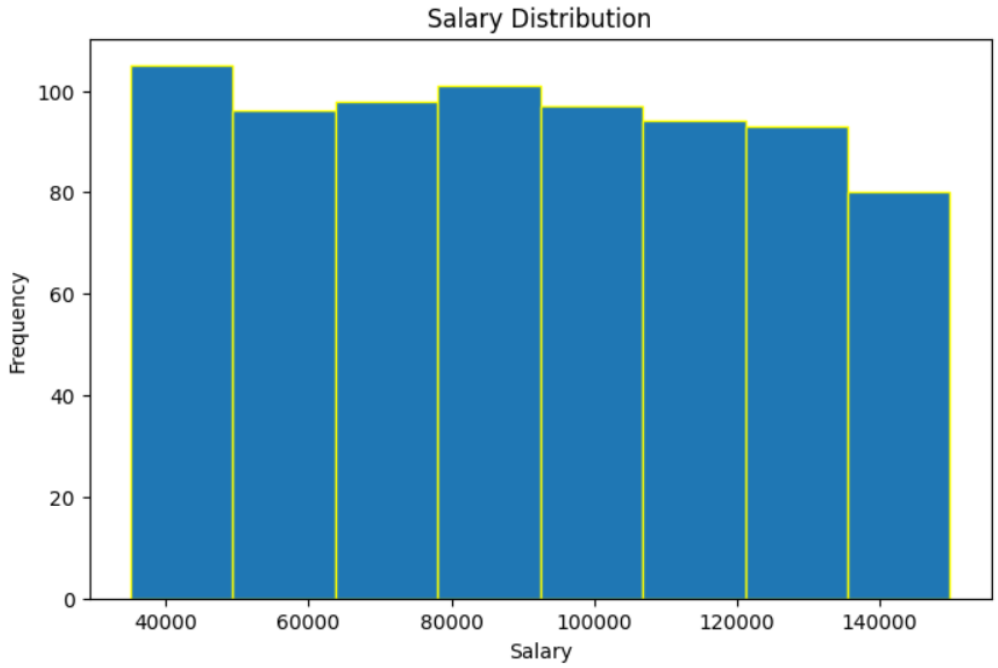
```
<Axes: xlabel='First_Name'>
```



```
plt.figure(figsize=(6,6))
df["Team"].value_counts().plot(kind="pie",autopct="%1.1f%%",startangle=180)
plt.title("Team Distribution")
plt.ylabel("")
plt.show()
```

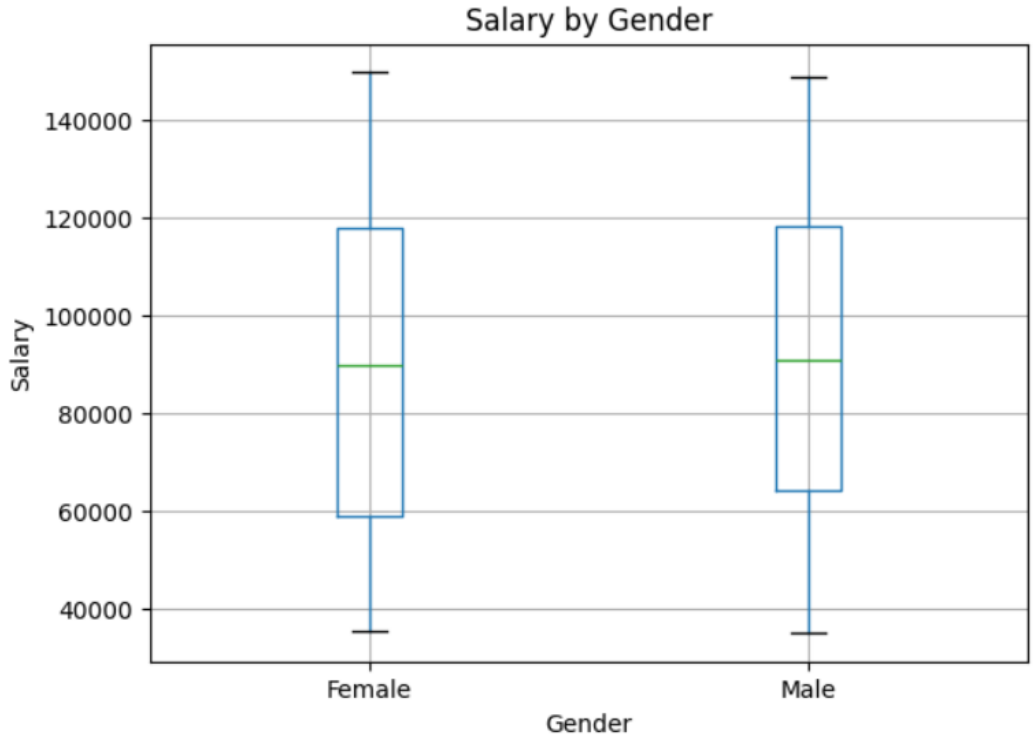


```
plt.figure(figsize=(8,5))
df["Salary"].plot(kind="hist",bins=8,edgecolor="yellow")
plt.title("Salary Distribution")
plt.xlabel("Salary")
plt.show()
```



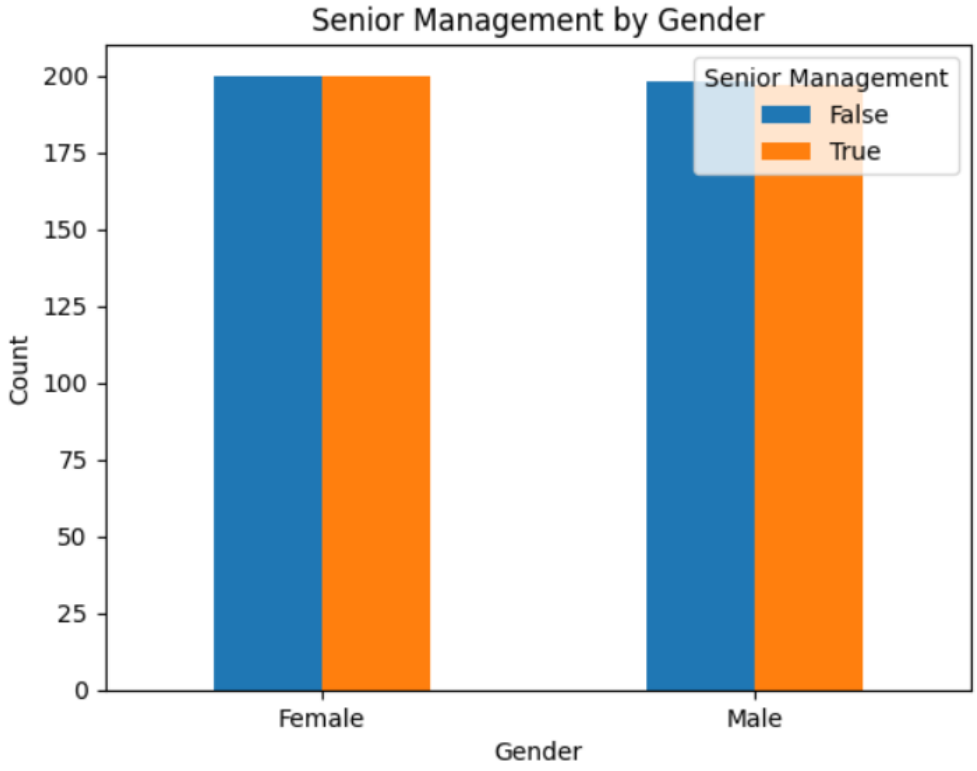
```
plt.figure(figsize=(8,5))
df.boxplot(column="Salary",by="Gender")
plt.title("Salary by Gender")
plt.suptitle("")
plt.ylabel("Salary")
plt.show()
```

```
<Figure size 800x500 with 0 Axes>
```



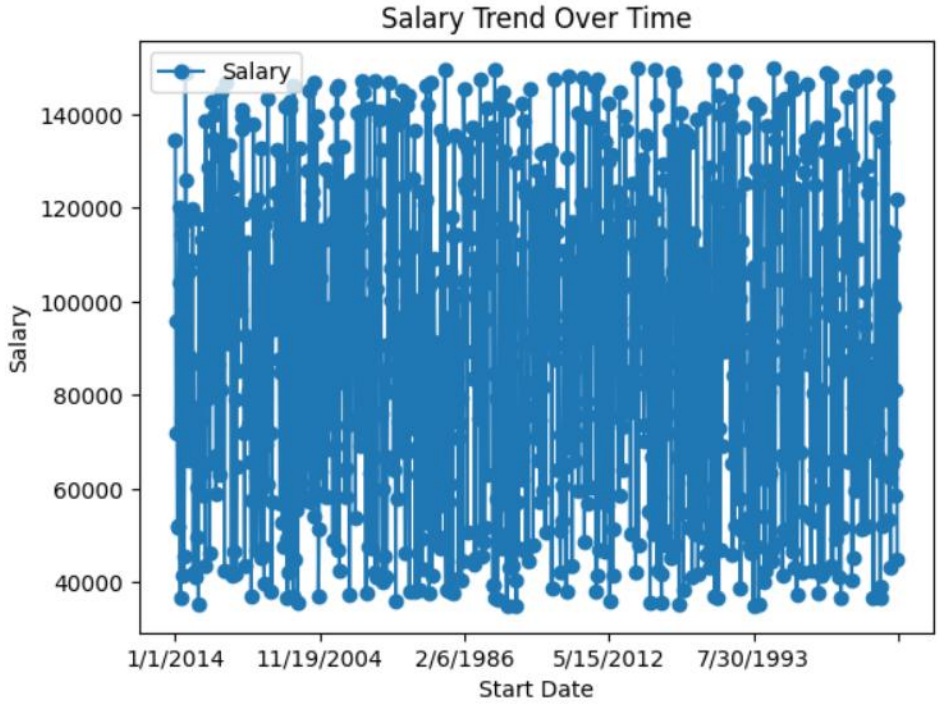
```
plt.figure(figsize=(8,5))
pd.crosstab(df["Gender"],df["Senior Management"]).plot(kind="bar")
plt.title("Senior Management by Gender")
plt.ylabel("Count")
plt.xticks(rotation=0)
plt.show()
```

```
<Figure size 800x500 with 0 Axes>
```

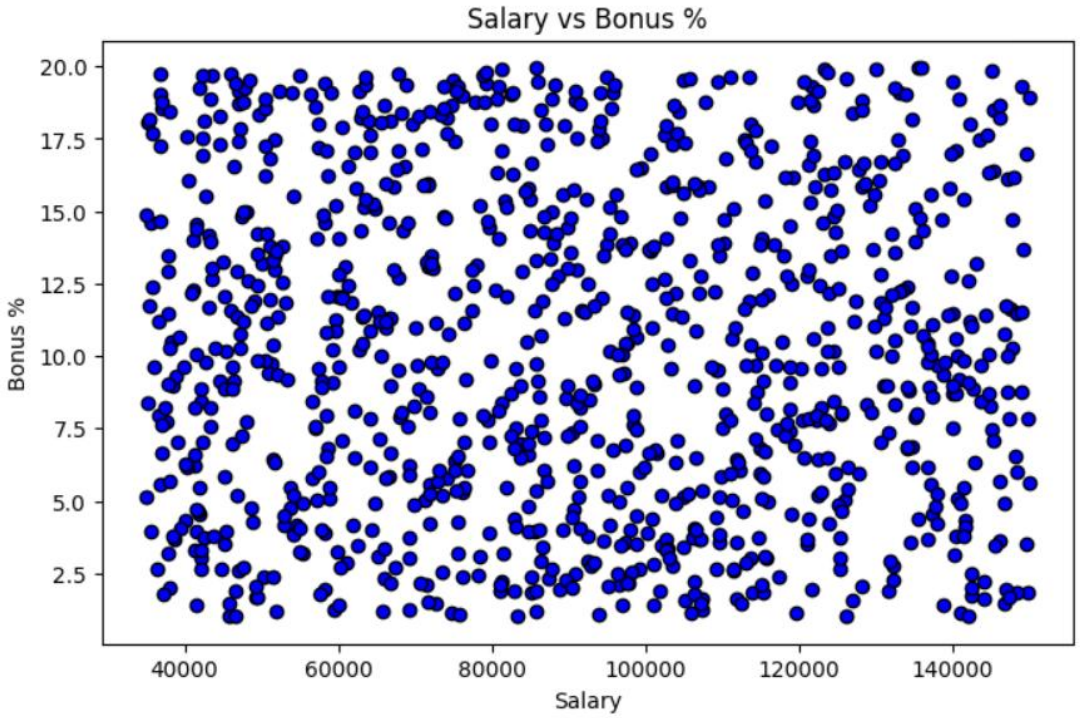


```
plt.figure(figsize=(10,5))
df.sort_values("Start Date").plot(x="Start Date", y="Salary", kind="line", marker="o")
plt.title("Salary Trend Over Time")
plt.ylabel("Salary")
plt.show()
```

```
<Figure size 1000x500 with 0 Axes>
```

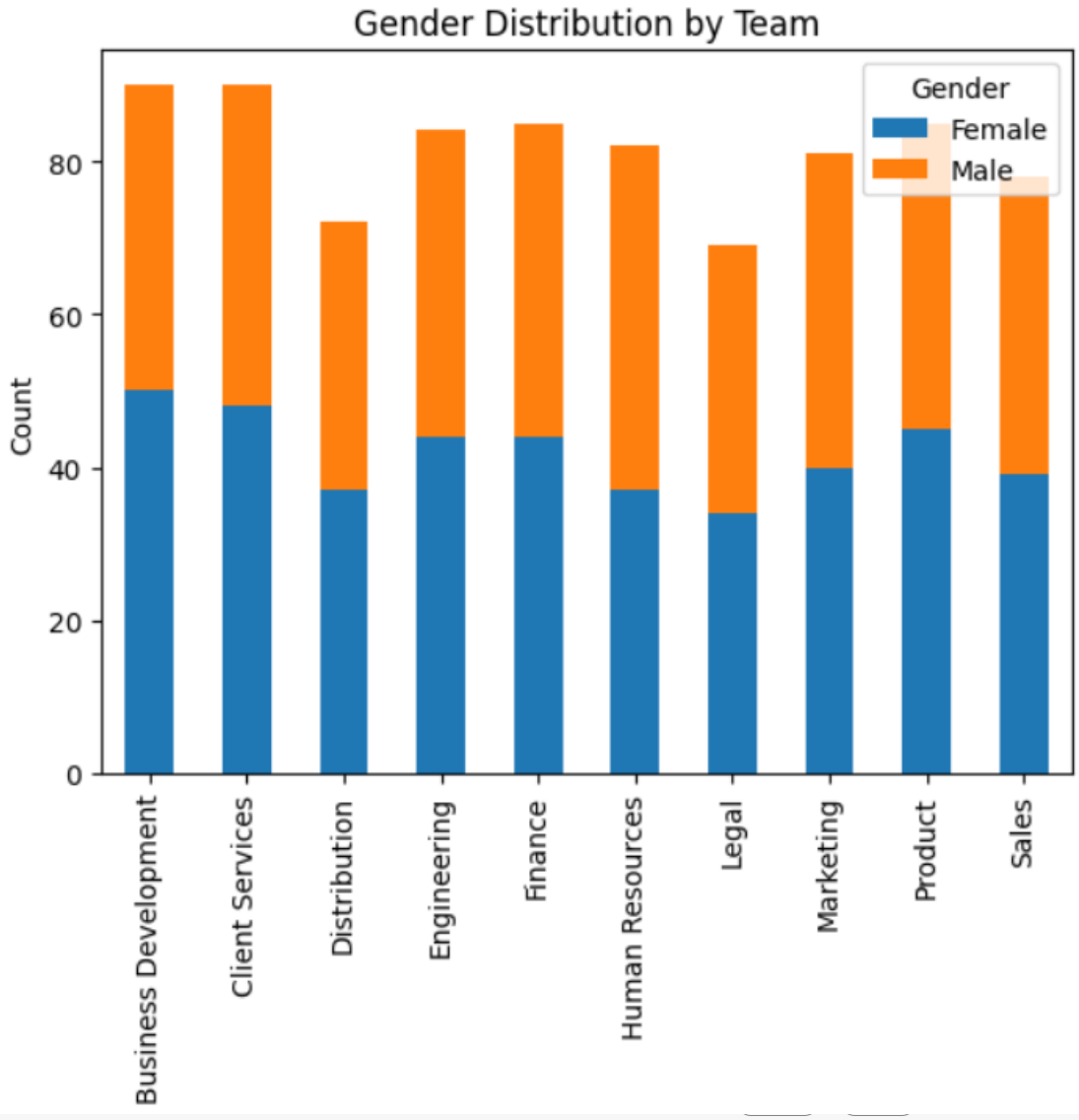


```
plt.figure(figsize=(8,5))
plt.scatter(df["Salary"],df["Bonus %"],c="blue",edgecolor="k")
plt.title("Salary vs Bonus %")
plt.xlabel("Salary")
plt.ylabel("Bonus %")
plt.show()
```

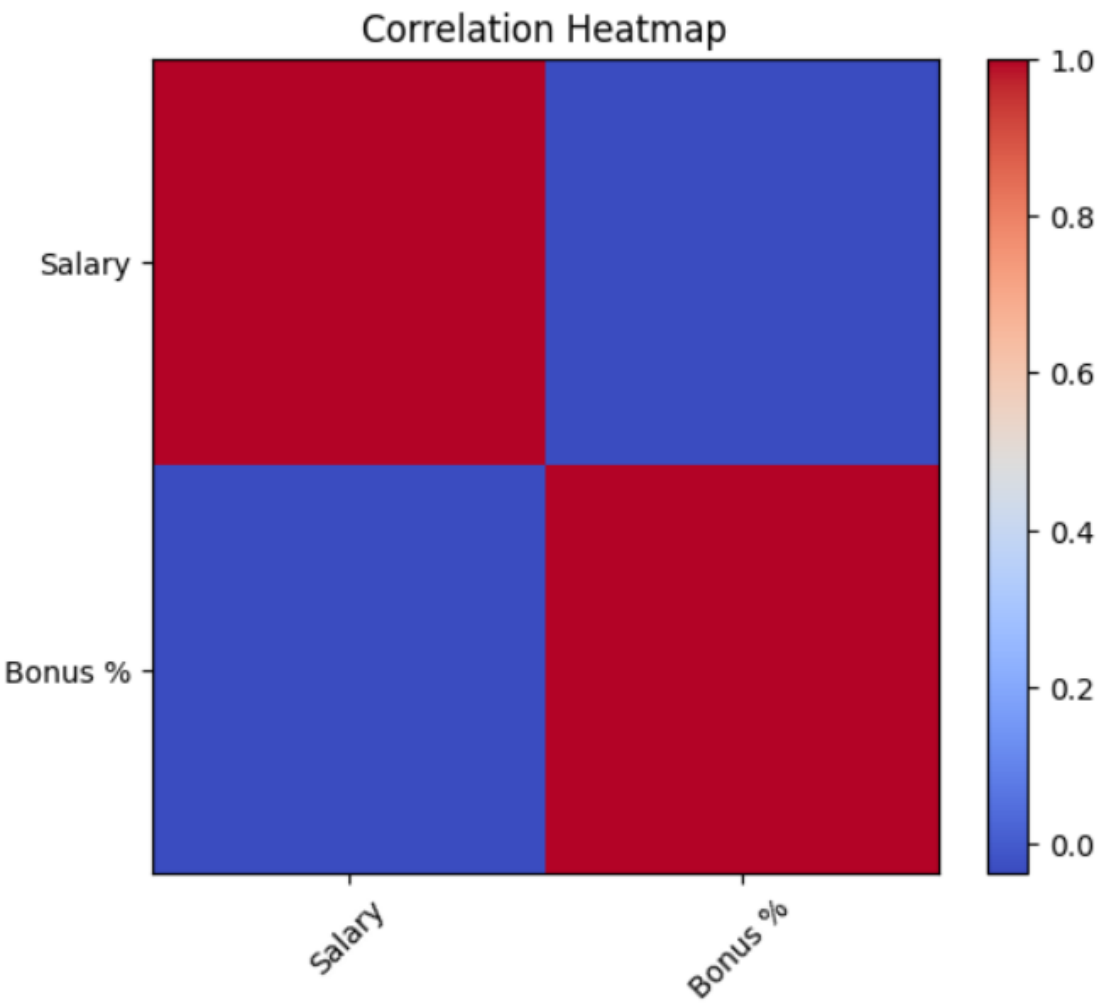



```
plt.figure(figsize=(10,5))
pd.crosstab(df["Team"],df["Gender"]).plot(kind="bar",stacked=True)
plt.title("Gender Distribution by Team")
plt.ylabel("Count")
plt.xticks(rotation=90)
plt.show()
```

```
<Figure size 1000x500 with 0 Axes>
```




```
[21] # 10. Correlation Heatmap (Salary vs Bonus %)
     plt.figure(figsize=(6,5))
     corr = df[["Salary","Bonus %"]].corr()
     plt.imshow(corr, cmap="coolwarm", interpolation="none", aspect="auto")
     plt.colorbar()
     plt.xticks(range(len(corr)), corr.columns, rotation=45)
     plt.yticks(range(len(corr)), corr.columns)
     plt.title("Correlation Heatmap")
     plt.show()
```


Correlation Heatmap
Salary
Bonus %
Salary
Bonus %
1.0
0.8
0.6
0.4
0.2
0.0