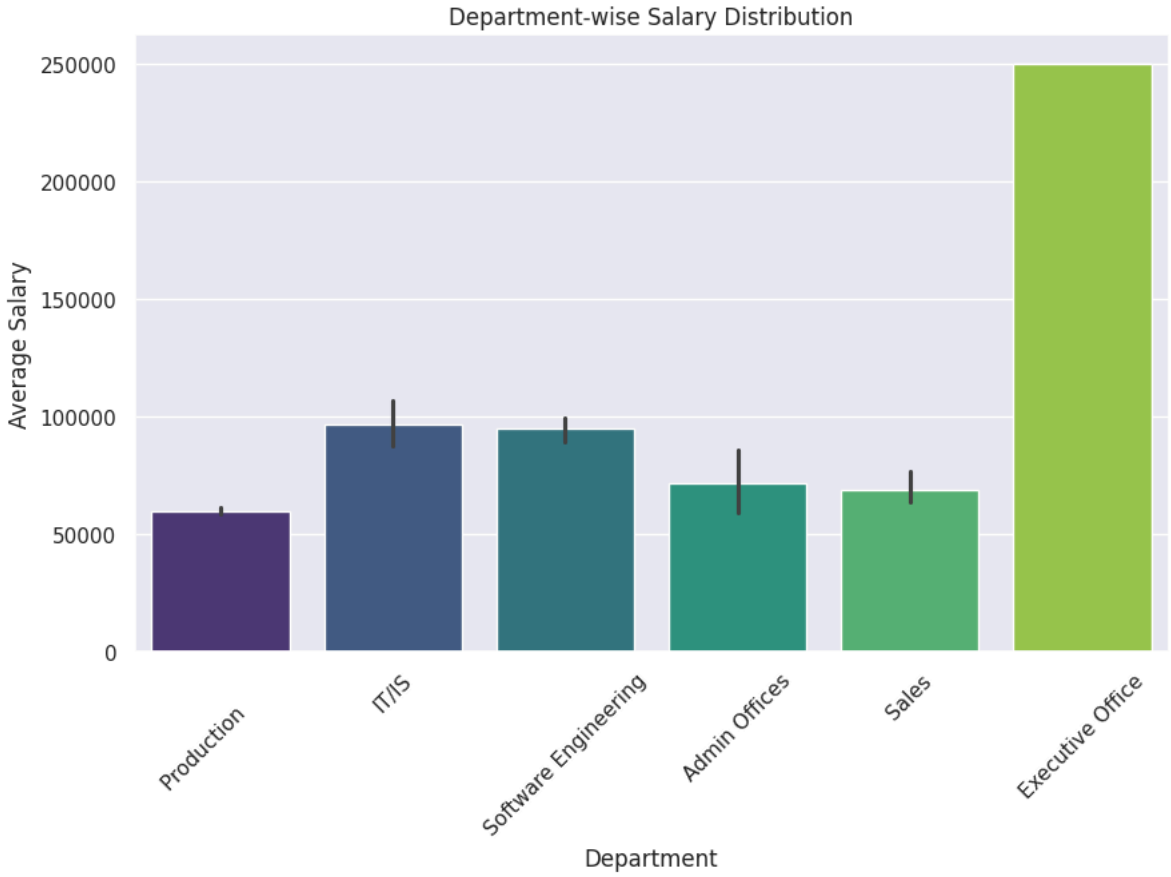
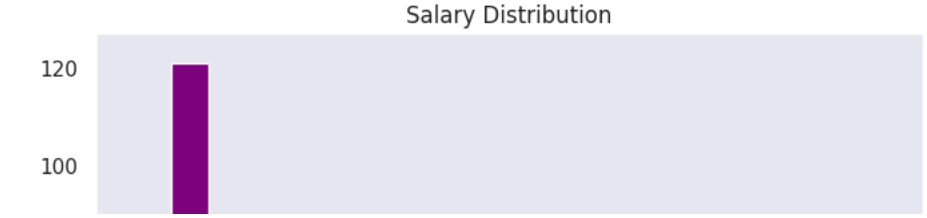
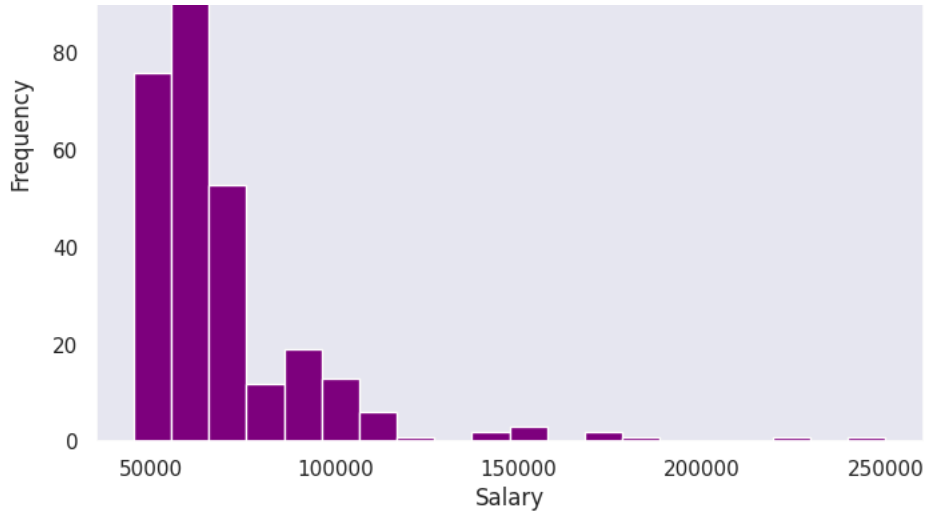
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import seaborn as sns


# Load the HR dataset
df = pd.read_csv("/content/HRDataset_v14.csv")

# Department-wise salary distribution
plt.figure(figsize=(10, 6))
sns.barplot(x='Department', y='Salary', data=df, palette = 'viridis')
plt.title('Department-wise Salary Distribution')
plt.xlabel('Department')
plt.ylabel('Average Salary')
plt.xticks(rotation=45)
plt.show()

# Employee distribution by gender
plt.figure(figsize=(8, 6))
sns.countplot(x='Sex', data=df, palette='coolwarm')
plt.title('Employee Distribution by Gender')
plt.xlabel('Gender')
plt.ylabel('Count')
plt.show()

# Histogram of salary distribution
plt.figure(figsize=(8, 6))
df['Salary'].plot(kind='hist', bins=20, color='purple')
plt.title('Salary Distribution')
plt.xlabel('Salary')
plt.ylabel('Frequency')
plt.grid()
plt.show()

# Line plot showing employee absences (if 'Absences' column exists)
if 'Absences' in df.columns:
    plt.figure(figsize=(8, 6))
    sns.histplot(x='Absences', data=df, bins=10, color='skyblue')
    plt.title('Employee Absence Distribution')
    plt.xlabel('Number of Absences')
    plt.ylabel('Count')
    plt.show()
else:
    print("Column 'Absences' not found in the dataset.")

# Pie chart of CitizenDesc Distribution
df['CitizenDesc'].value_counts().plot(kind="pie", autopct='%1.1f%%')
plt.title("Pie Chart of CitizenDesc Distribution")
plt.show()
```

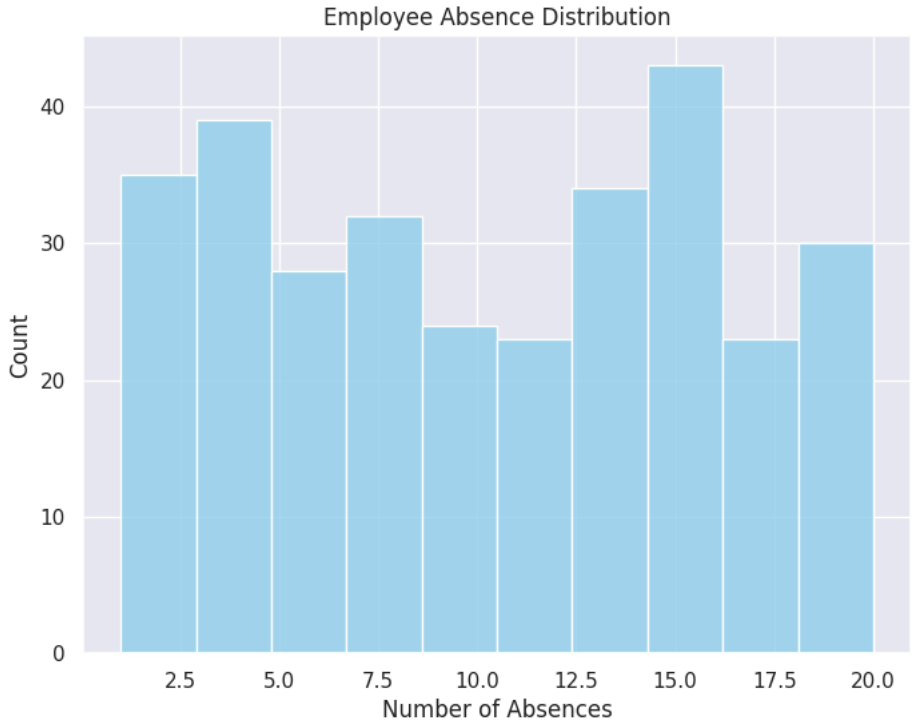
```
<ipython-input-17-d6f8afe9dd62>:12: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `le

  sns.barplot(x='Department', y='Salary', data=df, palette = 'viridis')
```

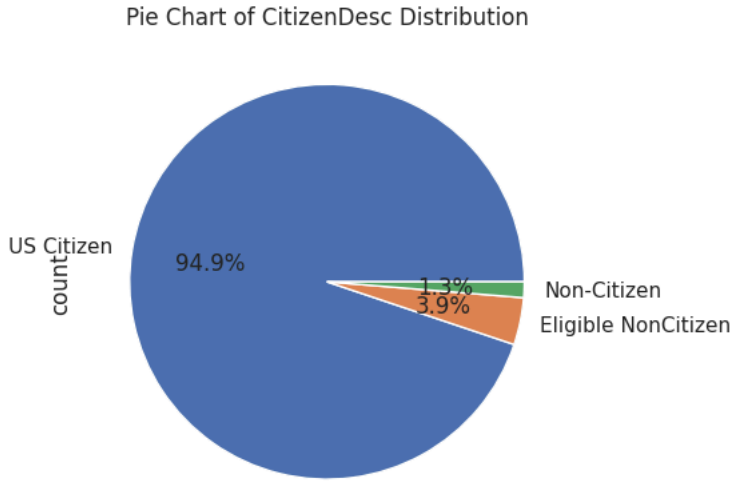



```
<ipython-input-17-d6f8afe9dd62>:21: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `le

  sns.countplot(x='Sex', data=df, palette='coolwarm')
```




Frequency
80
60
40
20
0
50000
100000
150000
200000
250000
Salary


Employee Absence Distribution
Count
40
30
20
10
0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Number of Absences


Pie Chart of CitizenDesc Distribution
US Citizen
count
94.9%
1.3%
3.9%
Non-Citizen
Eligible NonCitizen