NAME = Om Santosh Bhutkar.

```
Div = G
Batch = G-1
ROll No. = 707.
```

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10

PRN No.: - 202201040111.

Subject: - EDS (Assignment No.4)

Jayesh Nashik

Raja Nashik

Mahesh

Pranav

Saksham

Sunil

Radha

Gouri Nashik Sr. Manager

Pune

Pune

Pune

Double-click (or enter) to edit

```
import pandas as pd
df=pd.read_csv("/content/dataset4.csv")
print(df)
data = {
              'ID': [1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
              'Name': ['Sanvi', 'Mrunmayee', 'Jayesh', 'Gouri', 'Mahesh', 'Pranav', 'Saksham', 'Raja', 'Sur
              'City': ['Pune', 'Pune', 'Nashik', 'Pune', 'Pune', 'Pune', 'Nashik', 'Pur
              'Position': ['Manager', 'Sr. Manager', 'Sr. Manager', 'Supervisor', 'Manager', 'Sı
              'Salary': [100000, 150000, 90500, 100500, 85000, 100000, 150000, 90500, 100500, 85000],
              'Gender': ['female', 'male', 'female', 'male', 'male', 'male', 'male', 'male', 'female', 'female', 'male', 'ma
              'Marital Status': ['single', 'married', 'single', 'married', 'single', 'divorced', 'single',
df = pd.DataFrame(data)
                                                       Sanvi
                                                                                       Pune
                                                                                                                          Manager
                                                                                                                                                          100000
                                                                                                                                                                                     female
                                                                                                                                                                                                                         single
                                                                                       Pune Sr. Manager
                                        Mrunmayee
                                                                                                                                                                                            male
                                                                                                                                                                                                                     married
                 0
                               2
                                                                                                                                                          150000
```

90500

100500

85000

100000

150000

90500

100500

male

male

male

male

male

85000 female divorced

female

single

single

single

single

married

married

male divorced

Manager

Manager

Manager

Supervisor

Supervisor

Pune Sr. Manager

Nashik Sr. Manager

```
num records = len(df)
print("Number of records:", num_records)
     Number of records: 10
# 2. What are the unique cities in the dataset?
unique_cities = df['City'].unique()
print("Unique cities:", unique cities)
     Unique cities: ['Pune' 'Nashik']
# 3. What is the average salary of all employees?
average_salary = df['Salary'].mean()
print("Average salary:", average_salary)
     Average salary: 105200.0
# 3. What is the average salary of all employees?
average_salary = df['Salary'].mean()
print("Average salary:", average_salary)
     Average salary: 105200.0
# 4. How many male employees are there in the dataset?
male_count = df[df['Gender'] == 'male'].shape[0]
print("Number of male employees:", male_count)
     Number of male employees: 7
# 5. What is the highest salary in the dataset?
highest_salary = df['Salary'].max()
print("Highest salary:", highest_salary)
     Highest salary: 150000
# 6. How many employees are single and earn more than 100,000?
high_earning_single_count = df[(df['Marital_Status'] == 'single') & (df['Salary'] > 100000)].shar
print("Number of single employees earning more than 100,000:", high_earning_single_count)
```

1. How many records are there in the dataset?

```
Number of single employees earning more than 100,000: 2
# 7. What is the average salary of female employees in Nashik?
average_salary_nashik_female = df[(df['City'] == 'Nashik') & (df['Gender'] == 'female')]['Salary
print("Average salary of female employees in Nashik:", average_salary_nashik_female)
    Average salary of female employees in Nashik: 100500.0
# 8. How many divorced employees are there in Pune?
divorced_count_pune = df[(df['City'] == 'Pune') & (df['Marital_Status'] == 'divorced')].shape[0]
print("Number of divorced employees in Pune:", divorced_count_pune)
     Number of divorced employees in Pune: 2
# 9. What is the total salary expense for the company?
total salary expense = df['Salary'].sum()
print("The total salary expense for the company is:", total_salary_expense)
     The total salary expense for the company is: 1052000
# 10. What is the average salary of all employees?
average_salary = df['Salary'].mean()
print("The average salary of all employees is:",average_salary)
     The average salary of all employees is: 105200.0
```