In [3]:
```python
import pandas as pd
dict={'Ename':['roshan','amar','ashwini','lohith','mohan','pramod'],
      'category':['regular','adhoc','regular','adhoc','contract','regula
      'department':['cs','cs','ec','mc','cs','ec'],
      'experience':['10','15','20','14','9','8'],
      'salary':['50000','15000','30000','15000','10000','40000']}
df=pd.DataFrame(dict)
print(df)
```

```
      Ename   category department experience salary
0    roshan    regular         cs         10  50000
1      amar      adhoc         cs         15  15000
2   ashwini    regular         ec         20  30000
3    lohith      adhoc         mc         14  15000
4     mohan   contract         cs          9  10000
5    pramod    regular         ec          8  40000
```

In [4]:
```python
df.salary.max()
```

Out[4]: '50000'

In [5]:
```python
df.sort_index(axis=1,ascending=30)
```

Out[5]:

	Ename	category	department	experience	salary
0	roshan	regular	cs	10	50000
1	amar	adhoc	cs	15	15000
2	ashwini	regular	ec	20	30000
3	lohith	adhoc	mc	14	15000
4	mohan	contract	cs	9	10000
5	pramod	regular	ec	8	40000

In [13]:
```python
df.head()
```

Out[13]:

	Ename	category	department	experience	salary
0	roshan	regular	cs	10	50000
1	amar	adhoc	cs	15	15000
2	ashwini	regular	ec	20	30000
3	lohith	adhoc	mc	14	15000
4	mohan	contract	cs	9	10000

In [16]:
```python
df=(column:['category':'regular'])
```

```
  File "C:\Users\Anusha V\AppData\Local\Temp\ipykernel_10176\1716722765.p
y", line 1
    df=(column:['category':'regular'])
              ^
SyntaxError: invalid syntax
```

In [19]:
```python
1  df.groupby('salary').Ename.max()
```

Out[19]:
```
salary
10000      mohan
15000      lohith
30000    ashwini
40000     pramod
50000     roshan
Name: Ename, dtype: object
```

In [23]:
```python
1  df.groupby('category').Ename.min()
```

Out[23]:
```
category
adhoc          amar
contract      mohan
regular     ashwini
Name: Ename, dtype: object
```

In [30]:
```python
1  df.groupby('category').agg('age':min,'salary':max).plot(kind = 'bar')
```
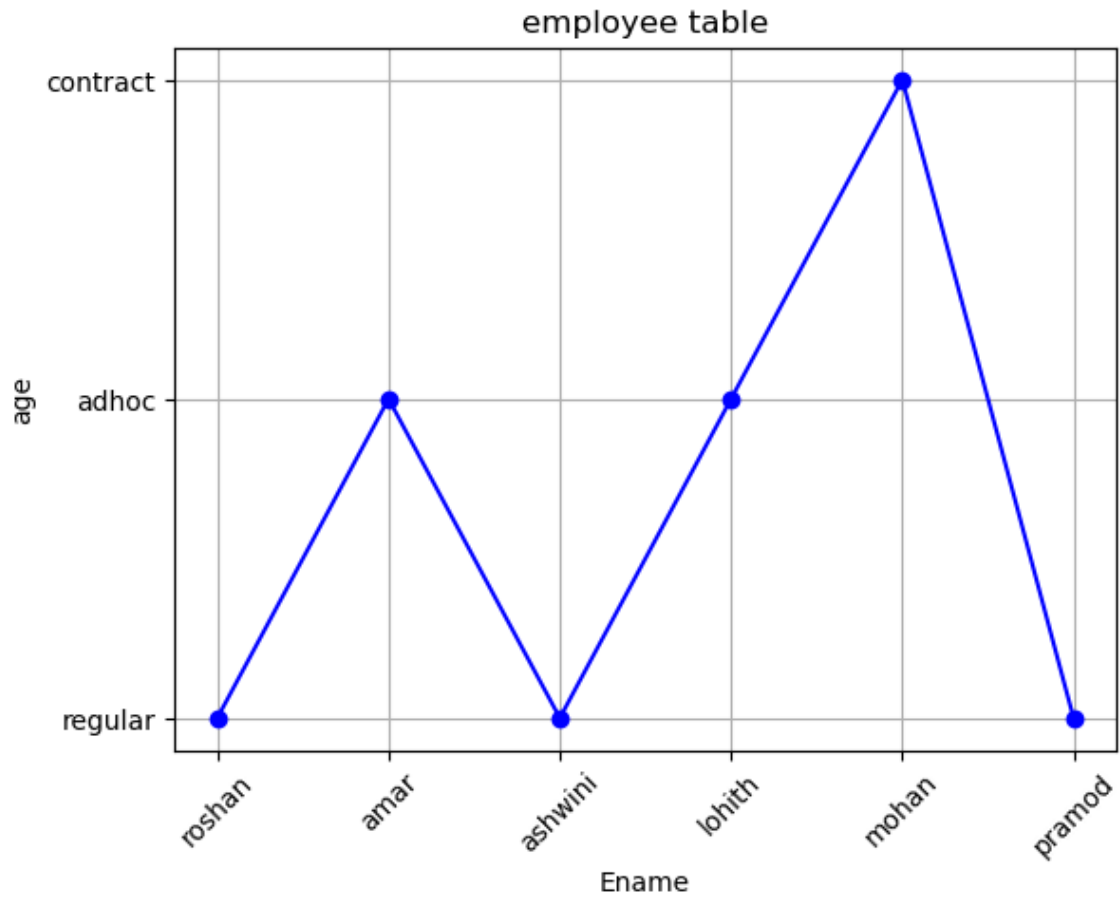
```
  File "C:\Users\Anusha V\AppData\Local\Temp\ipykernel_10176\2742937033.py", line 1
    df.groupby('category').agg('age':min,'salary':max).plot(kind = 'bar')
                                   ^
SyntaxError: invalid syntax
```

In [36]:
```python
1  import pivot_table
2  pivot_table = df.pivot_table(index='Name')
3  print(pivot_table)
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_10176\1797872133.py in <module>
----> 1 import pivot_table
      2 pivot_table = df.pivot_table(index='Name')
      3 print(pivot_table)

ModuleNotFoundError: No module named 'pivot_table'
```
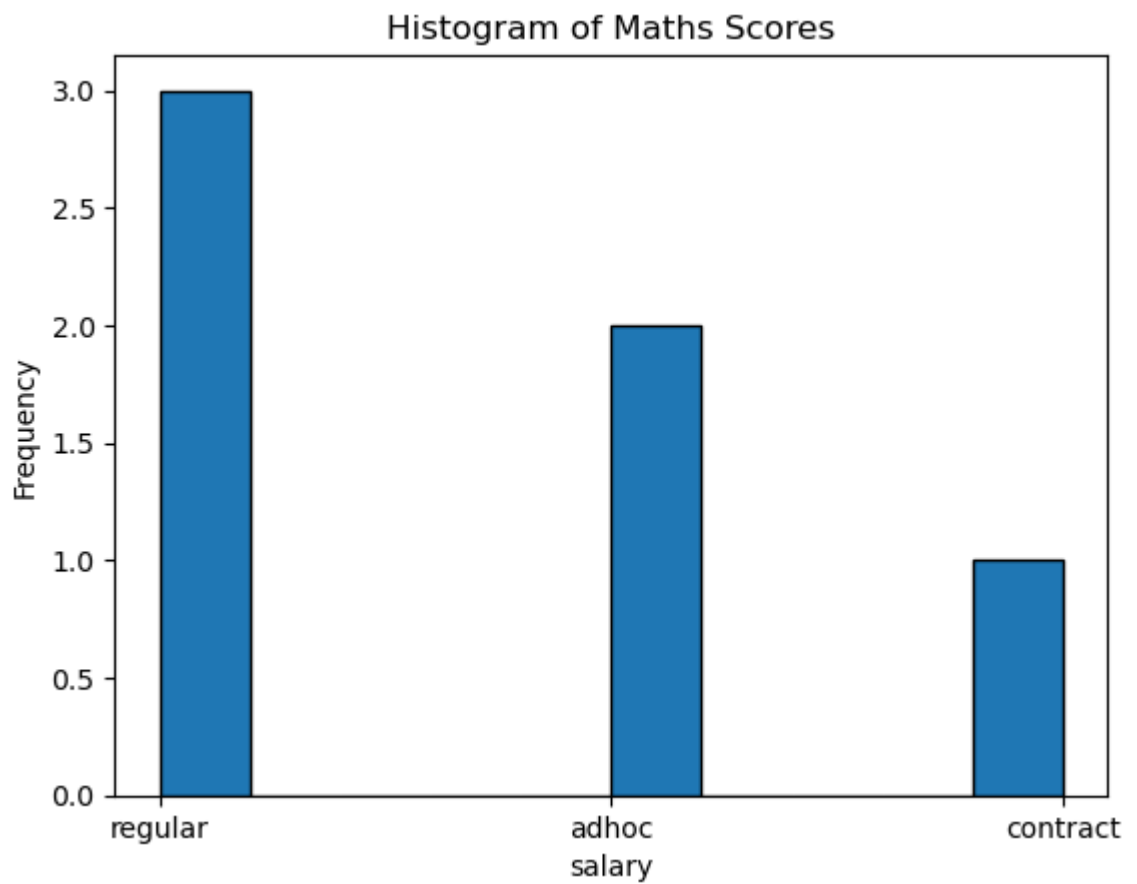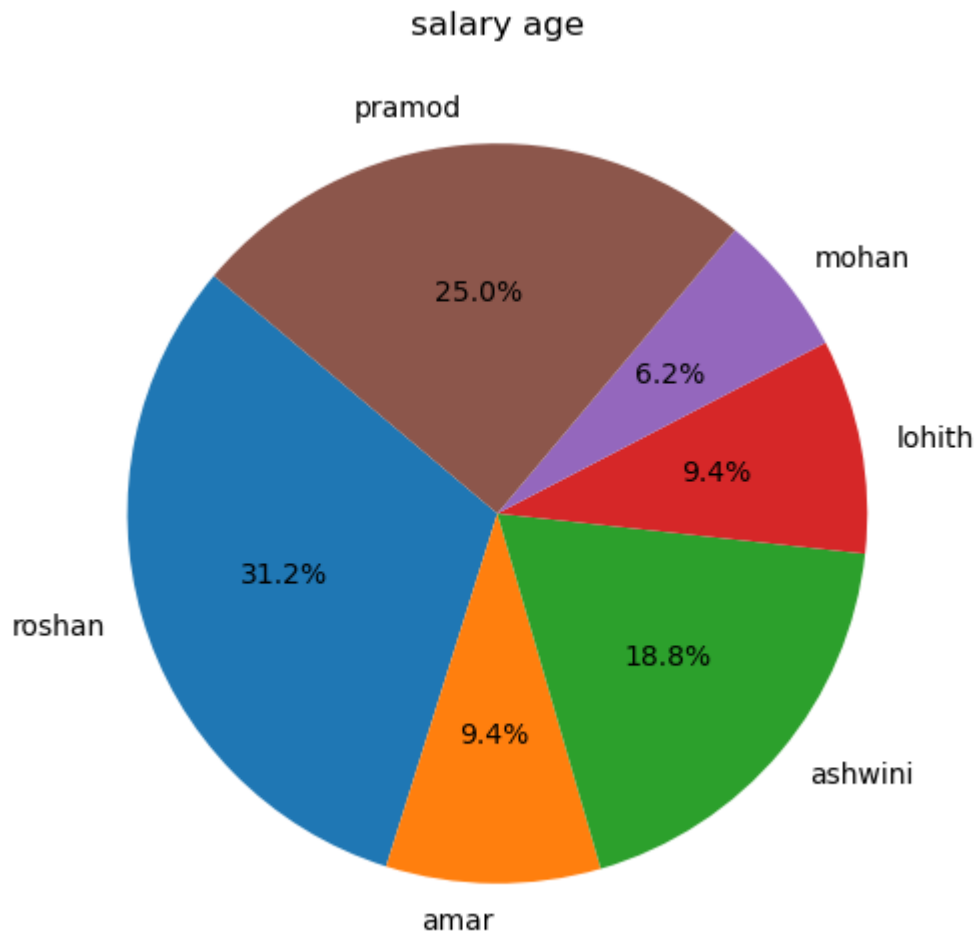
In [40]:
```python
import matplotlib.pyplot as plt
plt.plot(df['Ename'], df['category'], marker='o', linestyle='-', color=
plt.xlabel('Ename')
plt.ylabel('age')
plt.title('employee table')
plt.xticks(rotation=45)
plt.grid(True)
plt.show()
```


employee table

```
In [42]:   1  plt.hist(df['category'], bins=10, edgecolor='k')
           2  plt.xlabel('salary')
           3  plt.ylabel('Frequency')
           4  plt.title('Histogram of employee table')
           5  plt.show()
```

In [49]:
```python
import matplotlib.pyplot as plt

subject = 'salary'  # Change to the subject you want to visualize
plt.figure(figsize=(6, 6))
plt.pie(df[subject], labels=df['Ename'], autopct='%1.1f%%', startangle=
plt.title(f'{subject} age')
plt.show()
```

salary age

In [ ]:
```
1
```

In [ ]:
```
1
```