Create appropriate variables and follow the standards and assign most relevant values for the variables. Assign none if you are not sure about the values.

```
employee_name = "Prateek Tripathi"
date_of_joining = "2024-03-25"  # Date format: YYYY-MM-DD
wages = 25.00  # Hourly wage in dollars
hours_worked = 160  # Total hours worked in a pay period
leaves_taken = 4  # Number of leaves taken in the pay period
overtime_rate = 1.5  # Overtime rate (1.5 times regular wage)
total_overtime_hours = 10  # Total overtime hours worked in the pay period
gross_pay = (hours_worked - leaves_taken) * wages + total_overtime_hours * wages * overtime_rate  # Calculated gross pay
income_tax_and_other_deductibles = 1000.00  # Total income tax and other deductibles
statutory_payments = 200.00  # Total statutory payments made (e.g., Social Security, Medicare)
taxable_benefits = 50.00  # Total taxable benefits
net_pay = gross_pay - (income_tax_and_other_deductibles + statutory_payments + taxable_benefits)  # Calculated net pay

```

```

```

Create a list of dictionaries to store the employee tables and keep the DEPTID as a list and the Job as Tuple.

```
Employee_table = [
    {
        "empid": "E101",
        "name": "Keita,j.",
        "address": "1 high street",
        "DOB": "06/03/76",
        "JOB": "Clerk",
        "SalaryCode": "s1",
        "deptid": "D10",
        "manager": "E110",
        "schemeid": "S116"
    },
    {
        "empid": "E301",
        "name": "Wang,f.",
        "address": "22 railway road",
        "DOB": "11/04/80",
        "JOB": "Sales Person",
        "SalaryCode": "s2",
        "deptid": "D30",
        "manager": "E310",
        "schemeid": "S124"
    },
    {
        "empid": "E310",
        "name": "flavel,k.",
        "address": "14 cresent road",
        "DOB": "25/11/69",
        "JOB": "Manager",
        "SalaryCode": "s5",
        "deptid": "D30",
        "manager": "",
        "schemeid": "S121"
    },
    {
        "empid": "E501",
        "name": "payne,j.",
        "address": "7 heap street",
        "DOB": "09/02/72",
        "JOB": "Analyst",
        "SalaryCode": "s5",
        "deptid": "D50",
        "manager": "",
        "schemeid": "S121"
    },
    {
        "empid": "E102",
        "name": "patel,r.",
        "address": "16 glade colse",
        "DOB": "13/07/74",
        "JOB": "Clerk",
        "SalaryCode": "s1"
```

```
            "SalaryCode" : "s1",
            "deptid": "D10",
            "manager": "E110",
            "schemeid": "S116"
        },
        {"empid": "E110",
            "name": "smith,b.",
            "address": "199 London road",
            "DOB": "22/05/70",
            "JOB": "Manager",
            "SalaryCode": "s5",
            "deptid": "",
            "manager": "E110",
            "schemeid": "S121"}
    ]
```

Create five individual sets and combine them into one master set. Add pension scheme to set 5.

```
# Define the individual sets
set1 = {'S1'}
set2 = {'S2'}
set3 = {'S3'}
set4 = {'S4'}
set5 = {'S5'}

#here i am combining all sets into one master set
master_set = set1.union(set2, set3, set4, set5)

# now add the pension scheme to set 5
set5_with_pension = {'S5 (with pension scheme)'}

# Update master set with set 5 including the pension scheme
master_set.update(set5_with_pension)

# Display the master set
print("Master Set:")
for item in sorted(master_set):  # Sort for consistent order
    print("-", item)

```

Create a tuple of lists for the pension scheme

```
# Define the columns of the PensionScheme table
schemeId = ['S110', 'S121', 'S124', 'S116']
name = ['AXA', 'Premier', 'stakeholder', 'standard']
rate = [0.5, 0.6, 0.4, 0.4]

# Create a tuple of lists for the PensionScheme table
pension_scheme_table = (schemeId, name, rate)

# Display the tuple of lists
print("Pension Scheme Table:")
for column_name, column_values in zip(['schemeId', 'name', 'rate'], pension_scheme_table):
    print(column_name + ":", column_values)

```

```
Pension Scheme Table:
schemeId: ['S110', 'S121', 'S124', 'S116']
name: ['AXA', 'Premier', 'stakeholder', 'standard']
rate: [0.5, 0.6, 0.4, 0.4]
```

```
1
```