

th_income_tax.csv	
threshold min	rate

th_employee_national_insurance.csv	
threshold min	rate

th_corporate_national_insurance.csv	
threshold min	rate

th_corporation_tax.csv	
threshold min	rate

th_student_loans.csv		
category	threshold	rate

bands_employee_ni.csv			
category	rate 1	rate 2	rate 3

bands_corporate_ni.csv			
category	rate 1	rate 2	rate 3

allowance_dividends_tax_free.csv
value

allowance_change_income.csv
value

pct_dividends.csv
rate

income_tax
salary (integer)
tax_code (string)
tax_year (string)
find_csv_for_dataframe
interpret_tax_code_allowance
adjust_allowance
marginalise
OUT - Number

corporate_tax
gross_profit (integer)
tax_year (string)
find_csv_for_dataframe
marginalise
OUT - Number

find_csv_for_dataframe
tax_name (string)
tax_year (string)
CODE - 6 Lines
OUT - DataFrame

employee_ni
salary (integer)
tax_code (string)
tax_year (string)
find_csv_for_dataframe
interpret_tax_code_ni_band
find_csv_for_dataframe
adjust_ni_band
marginalise
OUT - Number

dividend_tax
salary (integer)
dividend (string)
tax_code (string)
tax_year (string)
find_csv_for_dataframe
interpret_tax_code_allowance
adjust_allowance
find_csv_for_dataframe
replace_threshold_rates
find_csv_for_dataframe
interpret_single_df_value
create_dividend_table
CODE - 1 Line
marginalise
OUT - Number

create_table
threshold_table (DataFrame 2col)
CODE - 4 Lines
OUT - DataFrame - 3col
marginal
cash (integer)
tax_table (DataFrame 3col)
CODE - 12 Lines
OUT - integer/float

marginalise_table
cash (integer)
threshold_table (DataFrame 2col)
create_table
marginal
OUT - DataFrame - 3col

corporate_ni
salary (integer)
tax_year (string)
tax_code (string)
find_csv_for_dataframe
interpret_tax_code_ni_band
find_csv_for_dataframe
marginalise
adjust_ni_band
OUT - Number

student_loans
plan (string)
cash (integer)
tax_year (string)
find_csv_for_dataframe
marginalise
OUT - Number

salary_taxes
salary (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
employee_ni
income_tax
corporate_ni
student_loans
student_loans
CODE - 4 Lines
OUT - DataFrame

interpret_single_df_value
df (DataFrame 1col,1row)
OUT - integer
replace_threshold_rates
threshold_table (DataFrame 2col)
rates (DataFrame 1col)
CODE - 3 Lines
OUT - DataFrame - 2col

adjust_allowance
salary (integer)
tax_allownace (integer)
tax_table (DataFrame - 2col)
tax_year (string)
CODE - 4 Lines
find_csv_for_dataframe
interpret_single_df_value
CODE - 10 Lines
OUT - DataFrame - 2col
interpret_tax_code_allowance
tax_code (string)
CODE - 3 Lines
OUT - integer
interpret_tax_code_ni_band
tax_code (string)
CODE - 1 Line
OUT - string

ltd_owner_full_take
turnover (integer)
expenses (integer)
salary (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
salary_taxes
CODE - 2 Lines
corporate_tax
CODE - 2 Lines
dividend_tax
CODE - 1 Lines
student_loans
student_loans
CODE - 7 Lines
OUT - DataFrame - 1 Row

adjust_ni_band
tax_table (DataFrame - 2col)
ni_band_table (DataFrame - 4col)
ni_band (string)
CODE - 9 Lines
OUT - DataFrame - 2col
create_dividend_table
salary (integer)
tax_free_amount (integer)
tax_table (DataFrame - 3col)
CODE - 9 Lines
OUT - DataFrame - 2 Column
create_student_loan_table
plan (string)
plan_table (DataFrame - 3col)
CODE - 3 Lines
OUT - DataFrame - 2col
iterate_salaries_ltd_take
turnover (integer)
expenses (integer)
min_salary (integer)
max_salary (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
iteration_step (string)
CODE - 2 Lines
ltd_owner_full_take
CODE - 2 Lines
OUT - DataFrame - Many Rows
optimal_take
options (DataFrame)
CODE - 2 Lines
OUT - DataFrame - 1row

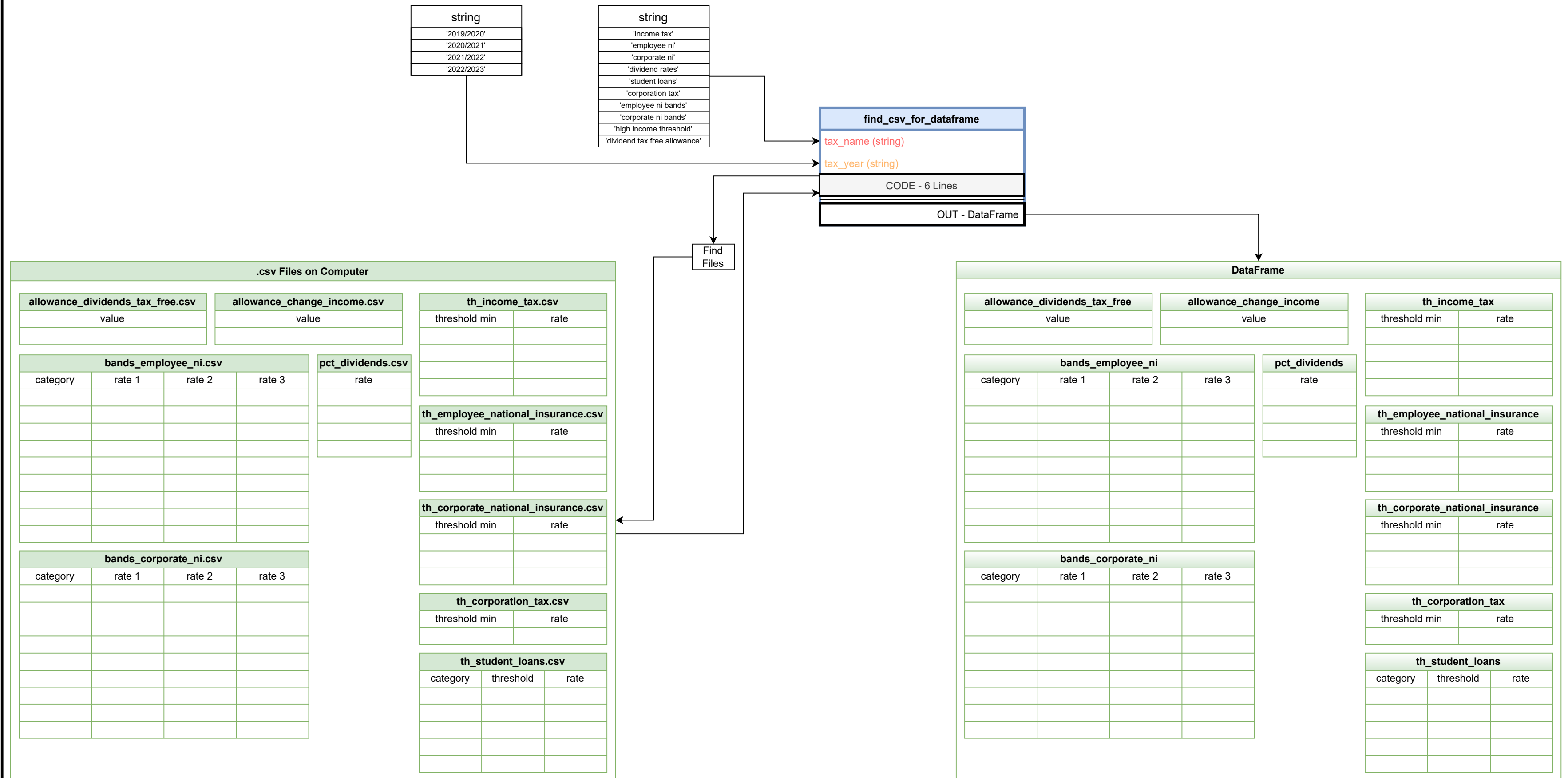
iterate_ltd_owner_full_take
turnover (integer)
expenses (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
CODE - 1 Line
iterate_salaries_ltd_take
OUT - DataFrame - Many Rows

optimise_ltd_owner_full_take
turnover (integer)
expenses (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
iterate_salaries_ltd_take
OUT - DataFrame - 1 Row

optimise_lite_ltd_owner_full_take
turnover (integer)
expenses (integer)
tax_code (string)
tax_year (string)
student_loan_plan (string)
student_loan_second_plan (string)
iteration_step (string)
CODE - 1 Lines
iterate_salaries_ltd_take
ltd_owner_full_take
CODE - 10 Lines
iterate_salaries_ltd_take
OUT - DataFrame - 1 Row

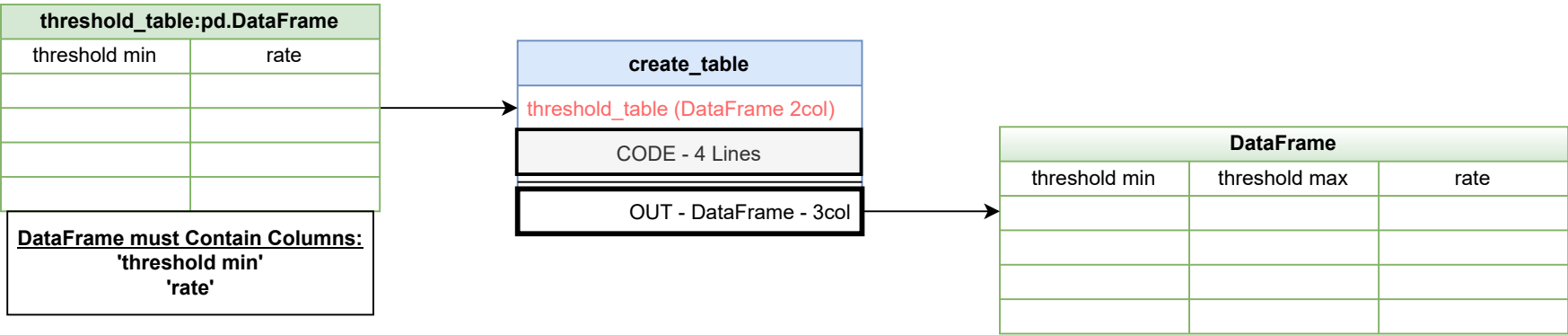
find_csv_for_dataframe

```
def find_csv_for_dataframe(tax_name,tax_year):
```



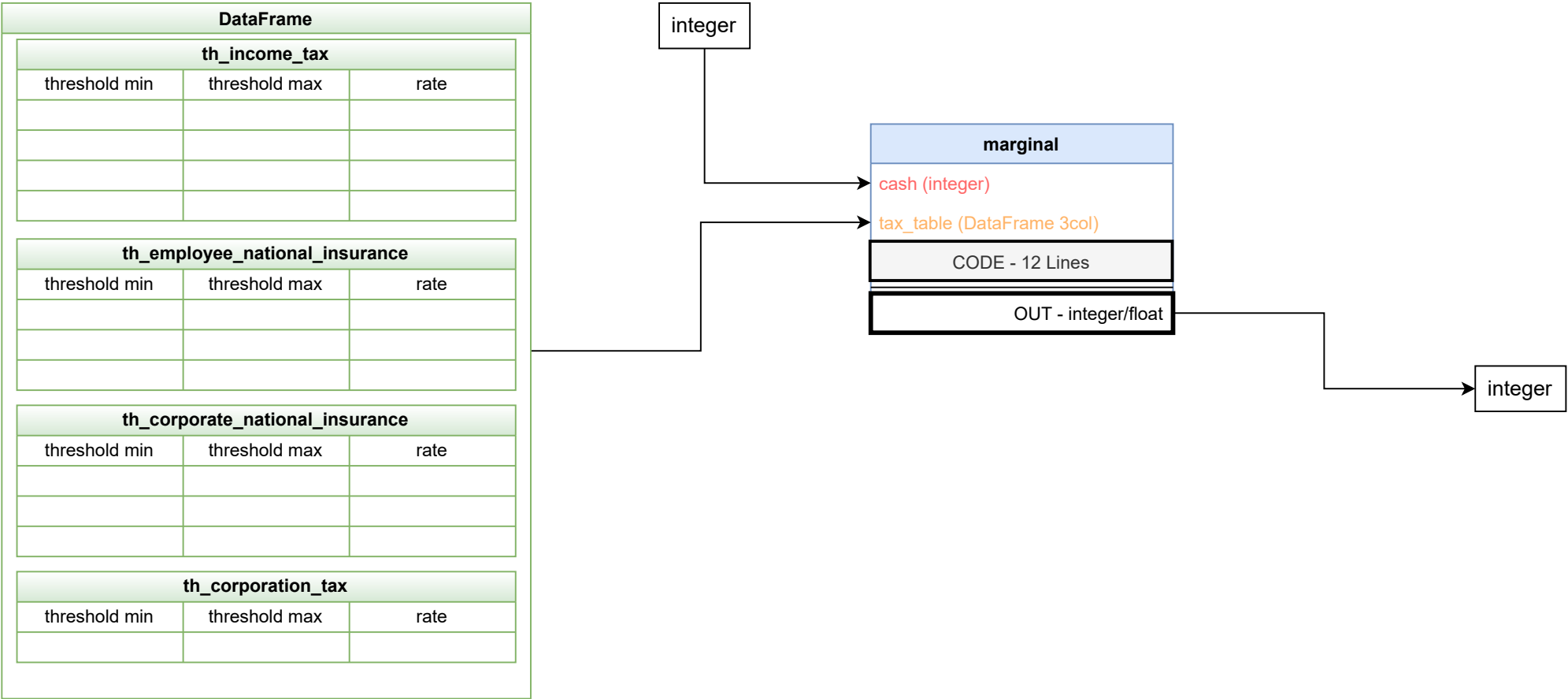
create_table

```
def create_table(threshold_table):
```



marginal

```
def marginal(cash,tax_table):
```



marginalise_table

```
def marginalise_table(cash,threshold_table):
```

