

User`s Expenses Application (results)

1. The databases output

Users

```
user_id, first name, last name, phone
(1, 'Diana', 'Vasilieva', '380638856748')
(2, 'Mariya', 'Shtanko', '380975793131')
(3, 'Viktor', 'Suprovych', '380974541090')
```

Expenses

```
expenses_id, user_id, category, value spent, day, month, year
(1, 1, 'food', 3455, '20', '01', '2023')
(2, 1, 'clothes', 3456, '20', '01', '2023')
(3, 1, 'food', 2333, '18', '01', '2023')
(4, 1, 'clothes', 3445, '01', '01', '2023')
(5, 1, 'stationery', 234, '20', '01', '2023')
(6, 1, 'food', 345, '20', '01', '2023')
(7, 2, 'food', 2345, '11', '11', '2022')
(8, 2, 'clothes', 3245, '11', '11', '2022')
```

Program Work

- add another users;

```
----- User`s expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 5
Enter user firstname: Nora
Enter user lastname: Shevchenko
Enter user phone: 380974571120
The user was added.
```

If we rerun the app, new user will appear in user.txt

```
user_id, first name, last name, phone
(1, 'Diana', 'Vasilieva', '380638856748')
(2, 'Mariya', 'Shtanko', '380975793131')
(3, 'Viktor', 'Suprovych', '380974541090')
(4, 'Nora', 'Shevchenko', '380974571120')
```

- add expenses based on the category or date;

```

----- User's expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 1
Enter user id (if you miss this field it will automatically add to 1 user): 3
Enter the category of expenses(food, clothes, etc): households
How much did you spend in hryvnias: 4668
Enter 1 - for today date and 2 - to input other date: 2
Please input the date of expenses: (day/month/year): 15/10/2022
The expense was added.

```

```

expenses_id, user_id, category, value spent, day, month, year
(1, 1, 'food', 3455, '20', '01', '2023')
(2, 1, 'clothes', 3456, '20', '01', '2023')
(3, 1, 'food', 2333, '18', '01', '2023')
(4, 1, 'clothes', 3445, '01', '01', '2023')
(5, 1, 'stationery', 234, '20', '01', '2023')
(6, 1, 'food', 345, '20', '01', '2023')
(7, 2, 'food', 2345, '11', '11', '2022')
(8, 2, 'clothes', 3245, '11', '11', '2022')
(9, 3, 'households', 4668, '15', '10', '2022')

```

- delete all data in each table or in some particular row;

User

```

----- User's expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 4
To clear the data from USERS - 1, from EXPENSES - 2, just clear WHOLE BOTH - 3: 1
Do you want to delete USER - u ot TABLE OF USERS - tu: u
Input user's id who you want to delete: 4
Cleared.

```

```

user_id, first name, last name, phone
(1, 'Diana', 'Vasilieva', '380638856748')
(2, 'Mariya', 'Shtanko', '380975793131')
(3, 'Viktor', 'Suprovych', '380974541090')

```

Expenses

```
expenses_id, user_id, category, value spent, day, month, year
(1, 1, 'food', 3455, '20', '01', '2023')
(2, 1, 'clothes', 3456, '20', '01', '2023')
(3, 1, 'food', 2333, '18', '01', '2023')
(4, 1, 'clothes', 3445, '01', '01', '2023')
(5, 1, 'stationery', 234, '20', '01', '2023')
(6, 1, 'food', 345, '20', '01', '2023')
(7, 2, 'food', 2345, '11', '11', '2022')
(8, 2, 'clothes', 3245, '11', '11', '2022')
(10, 3, 'households', 4668, '15', '10', '2022')
(11, 3, 'households', 4668, '15', '10', '2022')
```

```
----- User's expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 4
To clear the data from USERS - 1, from EXPENSES - 2, just clear WHOLE BOTH - 3: 2
Do you want to delete EXPENSES - e or TABLE OF EXPENSES - te: e
Input expenses id which you want to delete: 11
Cleared.
```

```
expenses_id, user_id, category, value spent, day, month, year
(1, 1, 'food', 3455, '20', '01', '2023')
(2, 1, 'clothes', 3456, '20', '01', '2023')
(3, 1, 'food', 2333, '18', '01', '2023')
(4, 1, 'clothes', 3445, '01', '01', '2023')
(5, 1, 'stationery', 234, '20', '01', '2023')
(6, 1, 'food', 345, '20', '01', '2023')
(7, 2, 'food', 2345, '11', '11', '2022')
(8, 2, 'clothes', 3245, '11', '11', '2022')
(10, 3, 'households', 4668, '15', '10', '2022')
```

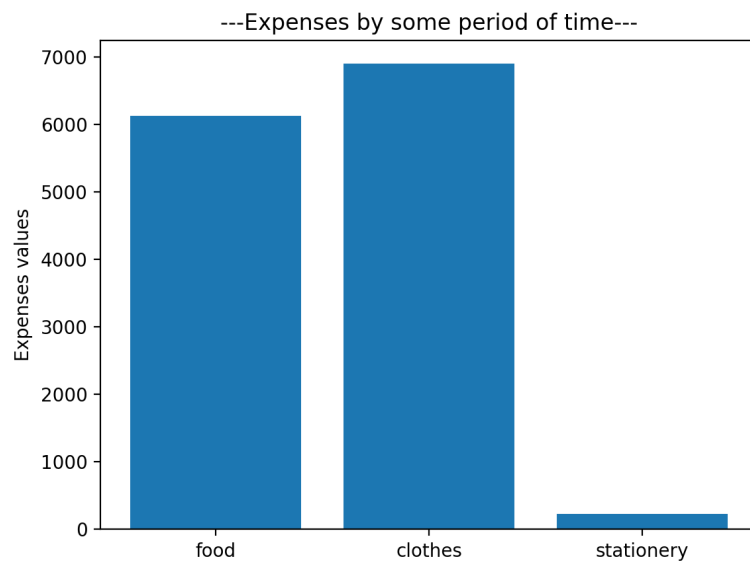
- get statistic of expenses for some particular period of time with a percentage relation to the whole sum -> day, month, year; month(whole)

```
----- User's expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 2
If you want to see the user's expenses statistic, write 'yes':
Please choose for which period you want to see statistic: day - d, month - m, year - y: y
Please input the month and year of expenses: (month/year): 01/2023
The general amount of expenses used in 01/2023 is 13268
(category, expenses) - percent of the expenses from the entire price))
('food', 3455) - 26.0 %
('clothes', 3456) - 26.0 %
('food', 2333) - 17.6 %
('clothes', 3445) - 26.0 %
('stationery', 234) - 1.8 %
('food', 345) - 2.6 %
```



day(user)

```

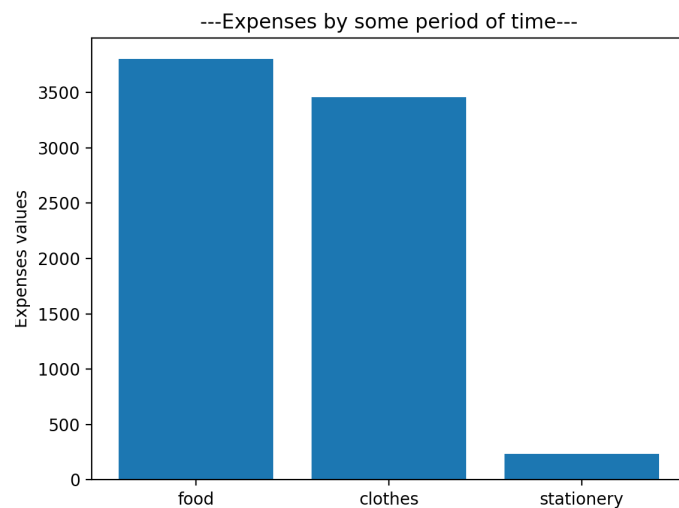
----- User's expenses application -----

Please choose one of those option:

1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.

Your choice: 2
If you want to see the user's expenses statistic, write 'yes': yes
Please choose for which user do you want to see the statistic: 1
Please choose for which period you want to see statistic: day - d, month - m, year - y: d
Please input the date of expenses: (day/month/year): 20/01/2023
These expenses includes
The general amount of expenses used in 20/01/2023 by Diana Vasilieva is 7490
(category, expenses) - percent of the expenses from the entire price
('food', 3455) - 46.1 %
('clothes', 3456) - 46.1 %
('stationery', 234) - 3.1 %
('food', 345) - 4.6 %

```



```
Your choice: 2
If you want to see the user's expenses statistic, write 'yes':
Please choose for which period you want to see statistic: day - d, month - m, year - y:y
Please input the year of expenses: 2021
The general amount of expenses used in 2021 is None
```

- get statistic of expenses based on category or all together;

```
1) Add expenses in a category today or other particular day: (Ex: 2, food, 250, 04/12/2022);
2) Get whole statistic of expenses for a day, month or year;
3) Get statistic of expenses based on the category;
4) Clear the data;
5) Add user;
6) Exit.
```

```
Your choice: 3
Please input category: households
If you want to see the user's expenses statistic, write 'yes':
Category: households
(4668, 15/10/2022)
```

```
Your choice: 3
Please input category: food
If you want to see the user's expenses statistic, write 'yes': yes
Input the user id: 1
Category: food
(3455, 20/01/2023)
(2333, 18/01/2023)
(345, 20/01/2023)
```

```
Your choice: 3
Please input category: all
Category: all
clothes - 10146
food - 8478
households - 4668
stationery - 234
```

Unit Tests

```
Testing started at 11:02 ...
Launching unittests with arguments python -m unittest

Ran 7 tests in 0.014s

OK
```