**Руководство пользователя**

к приложению по базе данных с медицинскими пунктами на базе школ

Разработчики:

Кретова Анна

Нагайцева Кристина

Чашкин Леонид

Москва, 2020

**Автор отчёта:** Чашкин Леонид

**Редакторы:** Кретова Анна, Нагайцева Кристина

**Описание решаемой задачи**

Нашей целью было разработать приложение для управления базой данных с результатами анализов учеников и информацией о школах и её обучающихся.

Для управления базой данных предусмотрены следующие функции:

1. Загрузка базы данных из указанного каталога (по умолчанию путь к базе данных: Work/Data)
2. Сохранение базы данных в двоичном формате
3. Редактирование базы данных: добавление, удаление и редактирование полей таблиц
4. Сортировка таблицы по различным атрибутам
5. Анализ данных в базе данных с помощью построения текстовых и графических отчётов
6. Сохранение отчётов в указанный каталог (по умолчанию для текстовых отчётов: Work/Notes, для графических отчётов: Work/Graphics)

**Технические требования**

64-битная операционная система Windows, на которую возможна установка интерпретатора Python 3.7 (<http://www.python.org/downloads/>)

**Инструкция по установке приложения**

Пользователю требуется установить на свой компьютер дистрибутив Anaconda, который содержит интерпретатор Python и все необходимые библиотеки, используемые в данном приложении.

**Инструкция по запуску и настройке приложения**

Пользователю требуется запустить скрипт main.py (который находится в каталоге), используя интерпретатор Python (python.exe), через командную строку (сделать это можно с помощью команды *python main.py*, если пользователь предварительно перешёл в каталог Work/Scripts).

**Система каталогов**

Программа использует следующую систему каталогов:

**Work** — основной каталог.

**Data** — содержит базу данных.

**Graphics** — содержит копии графических отчетов.

**Library** — содержит библиотеку стандартных (универсальных) функций.

**Notes** — содержит документацию (Руководства пользователя и разработчика).

**Output** — содержит копии текстовых отчетов.

**Scripts** — содержит все скрипты и файл с определением параметров настройки приложения.

**Описание базы данных**

База данных посвящена медицинским пунктам на базе школ. В каждой школе есть свой врач. Ученики сдают анализы на глюкозу и инсулин, а также могут сделать прививку от гриппа.

* Каждый ученик обучается только в одной школе. Полное совпадение фамилии, имени и отчества учеников в одной школе исключено. Даты рождения учеников могут совпадать.
* У каждой школы есть свой номер телефона.
* За каждой школой закреплён один врач. Один врач может работать в нескольких школах.
* Ученик может сдать анализы/сделать прививку несколько раз (при этом дата приёма различна).

Структура базы данных, приведённой к третьей нормальной форме, представлена на рисунке 1 (ключевые поля отмечены значком ключа).



Рис. 1 – Структура базы данных

**Описание интерфейса программы**

При открытии программы загружается база данных(по умолчанию: Work/Data, изменить этот путь можно с помощью настроек в приложении).

Замечание: если путь к базе данных некорректен, то приложение выдаст сообщение об ошибке и откроет файл с настройками приложения, чтобы пользователь мог указать корректный путь к базе данных.

**Главный интерфейс**

Главный интерфейс представлен на рисунке 2.

![Изображение выглядит как снимок экрана

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REWRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAeAAAIVodpAAQAAAABAAAIdJydAAEAAAAiAAAQ7OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCb0LXQvtC90LjQtCAo0YDQsNCx0L7Rh9C40LkpAAAFkAMAAgAAABQAABDCkAQAAgAAABQAABDWkpEAAgAAAAMxOQAAkpIAAgAAAAMxOQAA6hwABwAACAwAAAi2AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Bf/g91H/4xXs1FAHjPlftIf8AQN+Bf/g91H/4xR5X7SH/AEDfgX/4PdR/+MV7NRQB4z5X7SH/AEDfgX/4PdR/+MUeV+0h/wBA34F/+D3Uf/jFezUUAeM+V+0h/wBA34F/+D3Uf/jFHlftIf8AQN+Bf/g91H/4xXs1FAHjPlftIf8AQN+Bf/g91H/4xR5X7SH/AEDfgX/4PdR/+MV7NRQB4z5X7SH/AEDfgX/4PdR/+MUeV+0h/wBA34F/+D3Uf/jFezUUAee/sk/CLxP8KdI8aTeMH8N/2x4s8UT+INmj30k9vbRyQWkezfIiP/rIH/8AHP8AgHrhvPn/AIcf9dk9/wDb/wA/+gYtFAG0bz5/4cf9dk9/9v8Az/6AG8+f+HH/AF2T3/2/8/8AoGLRQBtG8+f+HH/XZPf/AG/8/wDoAbz5/wCHH/XZPf8A2/8AP/oGLRQBtG8+f+HH/XZPf/b/AM/+gBvPn/hx/wBdk9/9v/P/AKBi0UAbRvPn/hx/12T3/wBv/P8A6AG8+f8Ahx/12T3/ANv/AD/6Bi0UAbRvPn/hx/12T3/2/wDP/oAbz5/4cf8AXZPf/b/z/wCgYtFAG0bz5/4cf9dk9/8Ab/z/AOgBvPn/AIcf9dk9/wDb/wA/+gYtFAG0bz5/4cf9dk9/9v8Az/6AG8+f+HH/AF2T3/2/8/8AoGLRQBtG8+f+HH/XZPf/AG/8/wDoAbz5/wCHH/XZPf8A2/8AP/oGLRQBmfFe98XR+FG/4QWx8M3et/aPLzr9/Lb2ccO0h3/cxvI7/wAGz5PX+DZXlnlftIf9A34F/wDg91H/AOMV7NRQB4XZ/B74weOfjt4B8TeNofhhY6T4Lur2f/iR6tdyXNx59jPB/q5oET/WOn8de+f2Y39+3/7/AKVXooAsf2Y39+3/AO/6UmqS+bqE+3+/JUFFABX8v9f1AV/L/QB/UBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRXLfEjx5ceF7jSdH0m1j1HxV4muJbXSLadzHbl4U3zTzP/ciT5z/y0bIRP76ADfiX8S/+EOMem6atvfeJLyB7iG2upvLt7OBP9ZfXT/wWkf8A4/8AcT/Y/mqr97NNZvG82lCy/wCKl/4TS8d9PN9+4HjG6tcb7y95/c6Za5/d2Y+d/wC5/c/BOgD/2Q==)

Рис. 2 – Главное окно

По умолчанию при открытии приложения открывается таблица анализы (выбрать таблицу по умолчанию можно в настройках приложения). Переключение между таблицами осуществляется с помощью 4 кнопок над таблицей. Текущая таблица выделяется жёлтым цветом. Таблица *Полный список* представляет собой объединение 3 таблиц (*Анализы*, *Школы*, *Ученики*), то есть базу данных в первой нормальной форме.

С помощью кнопки *Загрузить базу данных* будет загружена база данных из файла, путь к которому указан в настройках.

Замечание: если пользователь нажал на кнопку *Загрузить базу данных* и при этом не сохранил сделанные изменения, все несохранённые изменения будут потеряны.

Для того, чтобы отсортировать таблицу по какому-то столбцу достаточно нажать на название этого столбца. При этом в первый раз таблица отсортируется по возрастанию значений этого столбца, при повторном нажатии на этот же столбец таблица отсортируется по убыванию. При этом рядом с названием отображается стрелочка, символизирующая направление сортировки. (Рис. 3)

![Изображение выглядит как снимок экрана

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REWRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAeAAAIVodpAAQAAAABAAAIdJydAAEAAAAiAAAQ7OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCb0LXQvtC90LjQtCAo0YDQsNCx0L7Rh9C40LkpAAAFkAMAAgAAABQAABDCkAQAAgAAABQAABDWkpEAAgAAAAMyMgAAkpIAAgAAAAMyMgAA6hwABwAACAwAAAi2AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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99wV9M/2Y39+3/wC/6VXooAsf2Y39+3/7/pTb791HCn7v92n8D+Z/HJUNFABX4O/8Fnv+UlXxI/7hf/pqs6/eKvwd/wCCz3/KSr4kf9wv/wBNVnQB+8VFeX/8NufBb/ornwv/APCrsf8A4uj/AIbc+C3/AEVz4X/+FXY//F0AeoUV5f8A8NufBb/ornwv/wDCrsf/AIuj/htz4Lf9Fc+F/wD4Vdj/APF0AeoUV5f/AMNufBb/AKK58L//AAq7H/4uj/htz4Lf9Fc+F/8A4Vdj/wDF0AeoUV5f/wANufBb/ornwv8A/Crsf/i6P+G3Pgt/0Vz4X/8AhV2P/wAXQB6hRXl//DbnwW/6K58L/wDwq7H/AOLo/wCG3Pgt/wBFc+F//hV2P/xdAHqFFeX/APDbnwW/6K58L/8Awq7H/wCLo/4bc+C3/RXPhf8A+FXY/wDxdAHqFFeX/wDDbnwW/wCiufC//wAKux/+Lo/4bc+C3/RXPhf/AOFXY/8AxdAHqFFeX/8ADbnwW/6K58L/APwq7H/4uj/htz4Lf9Fc+F//AIVdj/8AF0AeoUV5f/w258Fv+iufC/8A8Kux/wDi6P8Ahtz4Lf8ARXPhf/4Vdj/8XQB6hRXl/wDw258Fv+iufC//AMKux/8Ai6P+G3Pgt/0Vz4X/APhV2P8A8XQB6hRXl/8Aw258Fv8Aornwv/8ACrsf/i6P+G3Pgt/0Vz4X/wDhV2P/AMXQB6hRXl//AA258Fv+iufC/wD8Kux/+Lo/4bc+C3/RXPhf/wCFXY//ABdAHqFFeX/8NufBb/ornwv/APCrsf8A4uj/AIbc+C3/AEVz4X/+FXY//F0AeoUV5f8A8NufBb/ornwv/wDCrsf/AIuj/htz4Lf9Fc+F/wD4Vdj/APF0AeoUV5f/AMNufBb/AKK58L//AAq7H/4uj/htz4Lf9Fc+F/8A4Vdj/wDF0AeoUV5f/wANufBb/ornwv8A/Crsf/i6P+G3Pgt/0Vz4X/8AhV2P/wAXQB6hRXl//DbnwW/6K58L/wDwq7H/AOLo/wCG3Pgt/wBFc+F//hV2P/xdAHqFFeX/APDbnwW/6K58L/8Awq7H/wCLo/4bc+C3/RXPhf8A+FXY/wDxdAHqFFeX/wDDbnwW/wCiufC//wAKux/+Lo/4bc+C3/RXPhf/AOFXY/8AxdAHqFFeX/8ADbnwW/6K58L/APwq7H/4uj/htz4Lf9Fc+F//AIVdj/8AF0AeoUV5f/w258Fv+iufC/8A8Kux/wDi6P8Ahtz4Lf8ARXPhf/4Vdj/8XQB6hRXl/wDw258Fv+iufC//AMKux/8Ai6P+G3Pgt/0Vz4X/APhV2P8A8XQB6hRXl/8Aw258Fv8Aornwv/8ACrsf/i6P+G3Pgt/0Vz4X/wDhV2P/AMXQB6hRXl//AA258Fv+iufC/wD8Kux/+Lo/4bc+C3/RXPhf/wCFXY//ABdAHqFFeX/8NufBb/ornwv/APCrsf8A4uj/AIbc+C3/AEVz4X/+FXY//F0AeoUV5f8A8NufBb/ornwv/wDCrsf/AIuj/htz4Lf9Fc+F/wD4Vdj/APF0AeoUV5f/AMNufBb/AKK58L//AAq7H/4uj/htz4Lf9Fc+F/8A4Vdj/wDF0AeoUV5f/wANufBb/ornwv8A/Crsf/i6P+G3Pgt/0Vz4X/8AhV2P/wAXQB6hRXl//DbnwW/6K58L/wDwq7H/AOLo/wCG3Pgt/wBFc+F//hV2P/xdAHqFFeX/APDbnwW/6K58L/8Awq7H/wCLo/4bc+C3/RXPhf8A+FXY/wDxdAHqFFeX/wDDbnwW/wCiufC//wAKux/+Lqp4j/b6+CfhzQ7q/l+K/wAP7qOzTzPJs/ENjcXFx/sIiP8APJQB6N4y8Z2Hw+8PvqWpPJ5e9IIIYU8y4vJ3+5BAn8ckn9yvwg/4Kw3Wra9/wUC+IV1qFpptveSPYiW3tLn7QloRp9svkNJ/FJHjZIf+eiPX6XeJ/wBtH4fa5r1xqmqfFLwTZ3lnb75JdN8Q2k//AAjtrIR/oOnfvB5+oz8+Zdfcgx/Bs+T8tv8AgoZ4l0nW/wBr7xZdaKng5tLmSwa2Gjzw6naRJ9gt8Ri5X5ZXT7kjDrIr0Af/2Q==)

Рис. 3 – Отсортированная таблица

**Выделение ячеек в таблице**

В пункте Вид верхнего меню можно включить/отключить сортировку столбцов (по умолчанию включена). При отключении сортировки при нажатии на название столбца будет выделяться весь этот столбец. Рекомендуется использовать данную функцию, когда нужно выбрать для анализа несколько столбцов.

При этом для выделения всей строки достаточно нажать на соответствующий номер, находящийся слева от строки. Эта функция включена всегда (в отличие от выделения столбцов).

Для того, чтобы выделить несколько строк/столбцов/ячеек, необходимо при выделении удерживать клавишу *Ctrl*. (Рис. 4)

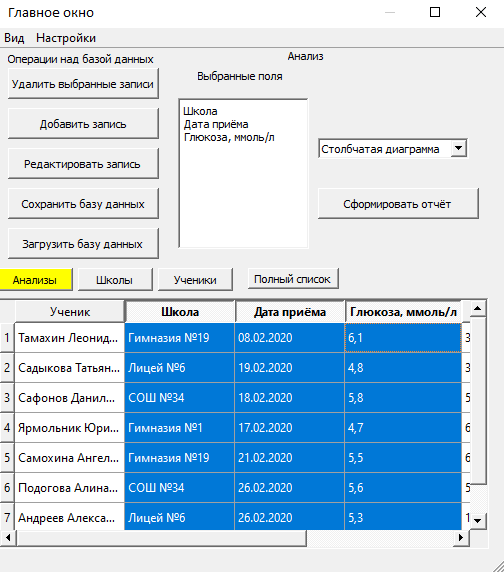


Рис. 4 – Выделение нескольких столбцов

**Настройки**

Изменить шрифт, цвет фона приложения, путь к базе данных, пути сохранения текстовых и графических отчётов можно с помощью настроек (пункт *Настройки* верхнего меню). Окно настроек со значениями по умолчанию показано на рисунке 5. С помощью кнопки *Выставить по умолчанию* можно вернуть все настройки к первоначальным. Если пользователь хочет применить текущие настройки, то он должен нажать на кнопку *Сохранить*. Если просто закрыть окно настроек, все настройки останутся прежними, какими были до изменения.

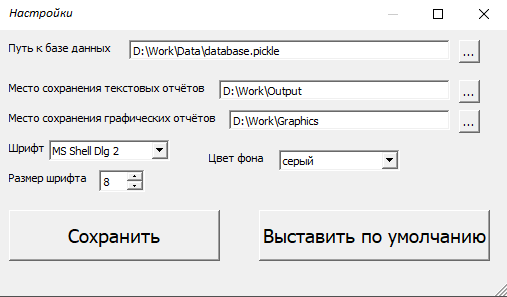


Рис. 5 – Настройки (значения по умолчанию)

Замечание: если пользователь введёт неверный путь к базе данных, то приложение не даст ему сохранить настройки и выдаст сообщение об ошибке. С помощью этого обеспечивается верный путь к базе данных для корректной работы приложения.

**Инструменты редактирования базы данных**

В программе предусмотрены следующие возможности редактирования базы данных: добавление/удаление сущностей, редактирование существующих полей.

Замечание: если пользователь хочет сохранить сделанные изменения, ему обязательно нужно нажать на кнопку *Сохранить базу данных*. Автоматически база данных не сохраняется, соответственно, во избежание потери изменений, рекомендуется после каждого изменения сразу их сохранять.

Для того, чтобы добавить новую сущность, необходимо нажать на кнопку *Добавить запись*. При этом откроется специальная форма, где нужно будет заполнить необходимые поля. (Рис. 6) После заполнения необходимых данных нужно нажать на кнопку *Добавить*, чтобы запись отобразилась в новой таблице. Чтобы изменить базу данных в файле, обязательно нужно нажать на кнопку *Сохранить базу данных*.

Изображение выглядит как снимок экрана

Автоматически созданное описание

Рис. 6 – Добавление записи

Замечание: в таблице 1 жёлтым цветом выделены ячейки, значения которых необходимо будет выбрать из раскрывающегося списка при добавлении записи в эту таблицу. Для того, чтобы изменить значение этого атрибута, необходимо перейти в другую таблицу. При этом в таблице *Полный список* можно добавить любую запись – в другие таблицы автоматически будет добавлена соответствующая информация.

|  |  |  |
| --- | --- | --- |
| Школы | Ученики | Анализы |
| Школа | Ученик | Ученик |
| Врач | Школа | Школа |
| Номер телефона | Дата рождения | Дата приёма |
|  | | Глюкоза |
| Инсулин |
| Прививка от гриппа |

Таблица 1. Добавление записи в таблицы

Замечание: если при изменении таблицы *Анализы* пользователь выберет пару *Ученик-Школа*, которой нет в таблице *Ученики*, программа выдаст сообщение об ошибке. Если необходимо добавить новую пару *Ученик-Школа*, необходимо предварительно добавить эту пару в таблице *Ученики* или перейти на таблицу *Полный список*.

Чтобы удалить какие-либо записи, достаточно выделить соответствующие записи в таблице и нажать на кнопку *Удалить выбранные записи*. Чтобы изменить базу данных в файле, обязательно нужно нажать на кнопку *Сохранить базу данных*.

Замечание: если при удалении каких-то полей одной таблицы затрагиваются поля других таблиц, то связанные с удаляемым полем записи в других таблицах также будут удалены без возможности восстановления.

Для редактирования какой-то записи необходимо выделить соответствующую строку и нажать на кнопку *Редактировать запись*. После этого откроется специальное окно, аналогичное окну добавления записи, в котором можно будет изменить запись. (Рис. 7) После изменения пользователю необходимо нажать на кнопку *Изменить,* чтобы изменённая запись стала отображаться в таблице. Чтобы изменить базу данных в файле, обязательно нужно нажать на кнопку *Сохранить базу данных*.

Изображение выглядит как снимок экрана

Автоматически созданное описание

Рис. 7 – Изменение записи

Замечание: если изменение влечёт за собой изменение других таблиц, то соответствующие значения в других таблицах будут автоматически изменены. Аналогично добавлению записи, значения некоторых атрибутов необходимо выбрать из раскрывающегося списка (см. ячейки жёлтого цвета в таблице 1). При необходимости их изменения нужно перейти в соответствующие таблицы. При этом в таблице *Полный список* изменения запрещены.

**Инструменты для анализа данных**

Программа предоставляет возможность сформировать следующие виды отчётов: простой текстовый отчёт (таблица, полученная вычёркиванием части строк и столбцов), текстовый статистический отчёт (по количественным переменным – минимум, максимум, среднее арифметическое, выборочная дисперсия, стандартное отклонение; по качественным переменным – таблица частот), текстовый отчёт «Сводная таблица», графический отчёт «Кластеризованная столбчатая диаграмма», графический отчет «категоризированная гистограмма», графический отчет «категоризированная диаграмма Бокса-Вискера», графический отчет «категоризированная диаграмма рассеивания». Необходимые типы данных, по котором строятся отчёты показаны в таблице 2.

|  |  |
| --- | --- |
| Вид отчёта | Необходимый тип данных |
| Простой текстовый отчёт | Любое количество строк и столбцов |
| Текстовый статистический отчёт | 1 атрибут любого типа (качественный или количественный) |
| Текстовый отчёт «Сводная таблица» | 2 качественных атрибут и 1 количественный атрибут |
| Графический отчёт «Кластеризованная столбчатая диаграмма» | 2 качественных атрибута |
| Графический отчет «категоризированная гистограмма» | 1 качественный и 1 количественный атрибут |
| Графический отчет «категоризированная диаграмма Бокса-Вискера» | 1 качественный и 1 количественный атрибут |
| Графический отчет «категоризированная диаграмма рассеивания» | 1 качественный атрибут и 2 количественных атрибута |

Таблица 2. Отчёты и необходимые типы данных для них

Для того, чтобы провести анализ данных необходимо выбрать соответствующие поля в таблице (выбранные поля отображаются в окошке), выбрать вид отчёта из выпадающего списка и нажать кнопку *Сформировать отчёт*. (Рис. 8) Пример текстового отчёта показан на рисунке 9, пример графического отчёта показан на рисунке 10.

![Изображение выглядит как снимок экрана

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REWRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAeAAAIVodpAAQAAAABAAAIdJydAAEAAAAiAAAQ7OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCb0LXQvtC90LjQtCAo0YDQsNCx0L7Rh9C40LkpAAAFkAMAAgAAABQAABDCkAQAAgAAABQAABDWkpEAAgAAAAM1MgAAkpIAAgAAAAM1MgAA6hwABwAACAwAAAi2AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Рис. 8 – Подготовка к формированию отчёта

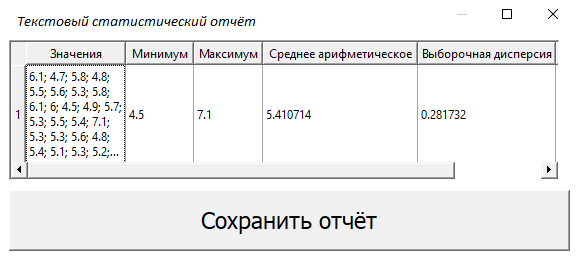


Рис. 9 – Текстовый статистический отчёт

![Изображение выглядит как снимок экрана

Автоматически созданное описание](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REWRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAeAAAIVodpAAQAAAABAAAIdJydAAEAAAAiAAAQ7OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCb0LXQvtC90LjQtCAo0YDQsNCx0L7Rh9C40LkpAAAFkAMAAgAAABQAABDCkAQAAgAAABQAABDWkpEAAgAAAAM1MgAAkpIAAgAAAAM1MgAA6hwABwAACAwAAAi2AAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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+Ec/aW/6BvwM/8G+q/wDyLR/wjn7S3/QN+Bn/AIN9V/8AkWvpGigD5u/4Rz9pb/oG/Az/AMG+q/8AyLR/wjn7S3/QN+Bn/g31X/5Fr6RooA+bv+Ec/aW/6BvwM/8ABvqv/wAi0f8ACOftLf8AQN+Bn/g31X/5Fr6RooA+bv8AhHP2lv8AoG/Az/wb6r/8i0f8I5+0t/0DfgZ/4N9V/wDkWvpGigD5u/4Rz9pb/oG/Az/wb6r/APItH/COftLf9A34Gf8Ag31X/wCRa+kaKAPm7/hHP2lv+gb8DP8Awb6r/wDItH/COftLf9A34Gf+DfVf/kWvpGigD5u/4Rz9pb/oG/Az/wAG+q//ACLR/wAI5+0t/wBA34Gf+DfVf/kWvpGigD5u/wCEc/aW/wCgb8DP/Bvqv/yLR/wjn7S3/QN+Bn/g31X/AORa+kaKAPm7/hHP2lv+gb8DP/Bvqv8A8i0f8I5+0t/0DfgZ/wCDfVf/AJFr6RooA+bv+Ec/aW/6BvwM/wDBvqv/AMi0f8I5+0t/0DfgZ/4N9V/+Ra+kaKAPm7/hHP2lv+gb8DP/AAb6r/8AItH/AAjn7S3/AEDfgZ/4N9V/+Ra+kaKAPm7/AIRz9pb/AKBvwM/8G+q//ItH/COftLf9A34Gf+DfVf8A5Fr6RooA+bv+Ec/aW/6BvwM/8G+q/wDyLR/wjn7S3/QN+Bn/AIN9V/8AkWvpGigD5u/4Rz9pb/oG/Az/AMG+q/8AyLR/wjn7S3/QN+Bn/g31X/5Fr6RooA+bv+Ec/aW/6BvwM/8ABvqv/wAi0f8ACOftLf8AQN+Bn/g31X/5Fr6RooA+bv8AhHP2lv8AoG/Az/wb6r/8i0f8I5+0t/0DfgZ/4N9V/wDkWvpGigD5u/4Rz9pb/oG/Az/wb6r/APItH/COftLf9A34Gf8Ag31X/wCRa+kaKAPm7/hHP2lv+gb8DP8Awb6r/wDItH/COftLf9A34Gf+DfVf/kWvpGigD5u/4Rz9pb/oG/Az/wAG+q//ACLR/wAI5+0t/wBA34Gf+DfVf/kWvpGigD5u/wCEc/aW/wCgb8DP/Bvqv/yLR/wjn7S3/QN+Bn/g31X/AORa+kaKAPm7/hHP2lv+gb8DP/Bvqv8A8i0f8I5+0t/0DfgZ/wCDfVf/AJFr6RooA+bv+Ec/aW/6BvwM/wDBvqv/AMi0f8I5+0t/0DfgZ/4N9V/+Ra+kaKAPm7/hHP2lv+gb8DP/AAb6r/8AItH/AAjn7S3/AEDfgZ/4N9V/+Ra+kaKAPm7/AIRz9pb/AKBvwM/8G+q//ItQeGPgT8ZPFn7RPw78VeN4/hnZ6T4Hub+4ZdD1K+muZvtFjNbABJrdVOGdDneMAN1OBX0xRQAUUUUAf//Z)

Рис. 10 – Кластеризованная столбчатая диаграмма

Замечание: если для выбранных полей невозможно сформировать отчёт, то программа выдаст сообщение об ошибке.

Сохранить отчёт можно путём нажатия в открывшемся окне на кнопку *Сохранить отчёт*. Отчёт будет сохранён в соответствующую папку (которая указана в настройках приложения). Текстовые отчёты сохраняются в формате *xlsx,* графические отчёты – в формате *png*. Название отчёта формируется по следующему принципу:   
*<Вид отчёта>\_<Дата сохранения>\_<Время сохранения>*

Например: **Простой\_текстовый\_отчёт\_18\_03\_2020\_19\_43\_27.xlsx**,  
**Столбчатая\_диаграмма\_14\_03\_2020\_18\_37\_00.png**.