

simplebase - a fast and easy to use noSQL database in python

Generated by Doxygen 1.9.4



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# Chapter 1

## Class Documentation

### 1.1 simplebase Class Reference

#### Public Member Functions

- def `__init__` (self, filename=None)  
*Initialize the database object.*
- def `add_row_to_table` (self, tablename, row)  
*Insert a single row in a table.*
- def `create_table` (self, tablename, columns=None)  
*Creates a table (if not exists) in the database.*
- def `load_field_from_row` (self, tablename, row, field)  
*Shows a column from a row in a table.*
- def `load_row_from_table` (self, tablename, row)  
*Shows a single row from a table.*
- def `load_table` (self, tablename)  
*Shows the content of a table in the database.*
- def `open` (self, file)  
*Open a database file and check the coherency of the main table.*
- def `panic` (self, msg, exiting=True)  
*Helper to manage errors and warnings in a easy way.*
- def `show_columns` (self, tablename)  
*Shows all the columns in the table.*
- def `show_tables` (self)  
*Shows all the tables in the database.*
- def `update_field_to_row` (self, tablename, row, field, value)  
*Update the value of a column in a row in a table.*

#### Public Attributes

- `db`

#### 1.1.1 Detailed Description

The main class for simplebase: defines all the methods needed to create and interact with a database

## 1.1.2 Constructor & Destructor Documentation

### 1.1.2.1 `__init__()`

```
def __init__ (
    self,
    filename = None )
```

Initialize the database object.

#### Parameters

<i>self</i>	The database object
<i>filename</i>	Optional boolean: if set to a string a db is opened (or created)

## 1.1.3 Member Function Documentation

### 1.1.3.1 `add_row_to_table()`

```
def add_row_to_table (
    self,
    tablename,
    row )
```

Insert a single row in a table.

#### Parameters

<i>self</i>	The database object
<i>tablename</i>	The name of the table to inspect
<i>row</i>	A dict containing the row to write (as: row = { name: "name", fields: {"field_1": value_1, ...} })

#### Returns

False in case of error or True if successful

### 1.1.3.2 `create_table()`

```
def create_table (
    self,
```

```
tablename,  
columns = None )
```

Creates a table (if not exists) in the database.

**Parameters**

<i>self</i>	The database object
<i>tablename</i>	Name of the table to work on
<i>columns</i>	Optional list: creates all the columns available in the table

**Returns**

False in case of error or True if successful

**1.1.3.3 load\_field\_from\_row()**

```
def load_field_from_row (
    self,
    tablename,
    row,
    field )
```

Shows a column from a row in a table.

**Parameters**

<i>self</i>	The database object
<i>tablename</i>	The name of the table to inspect
<i>row</i>	The name of the row to inspect
<i>field</i>	The name of the column to inspect

**Returns**

False in case of error or a dynamic type variable containing the column value

**1.1.3.4 load\_row\_from\_table()**

```
def load_row_from_table (
    self,
    tablename,
    row )
```

Shows a single row from a table.

**Parameters**

<i>self</i>	The database object
<i>tablename</i>	The name of the table to inspect
<i>row</i>	The name of the row to load



**Returns**

False in case of error or a dict containing the requested row

**1.1.3.5 load\_table()**

```
def load_table (
    self,
    tablename )
```

Shows the content of a table in the database.

**Parameters**

<i>self</i>	The database object
<i>tablename</i>	Name of the table to inspect

**Returns**

False in case of error or a dict representing the content of the db

**1.1.3.6 open()**

```
def open (
    self,
    file )
```

Open a database file and check the coherency of the main table.

**Parameters**

<i>self</i>	The database object
<i>file</i>	The absolute path of the database file

**1.1.3.7 panic()**

```
def panic (
    self,
    msg,
    exiting = True )
```

Helper to manage errors and warnings in a easy way.

**Parameters**

<i>self</i>	The database object
<i>msg</i>	The error message
<i>exiting</i>	Optional boolean: if set to True the program will exit (also changes from ! to x the icon)

**1.1.3.8 show\_columns()**

```
def show_columns (
    self,
    tablename )
```

Shows all the columns in the table.

**Parameters**

<i>self</i>	The database object
<i>tablename</i>	Name of the table to inspect

**Returns**

False in case of error or a list of strings with the columns names

**1.1.3.9 show\_tables()**

```
def show_tables (
    self )
```

Shows all the tables in the database.

**Parameters**

<i>self</i>	The database object
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**Returns**

False in case of error or a list containing all the tables names as strings

**1.1.3.10 update\_field\_to\_row()**

```
def update_field_to_row (
    self,
```

```
tablename,  
row,  
field,  
value )
```

Update the value of a column in a row in a table.

#### Parameters

<i>self</i>	The database object
<i>tablename</i>	The name of the table to work on
<i>row</i>	The name of the row to work on
<i>field</i>	The name of the column to update
<i>value</i>	The new value of the column

#### Returns

False in case of error or True if successful

### 1.1.4 Member Data Documentation

#### 1.1.4.1 db

db

The documentation for this class was generated from the following file:

- [simplebase.py](#)



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