

plainDB

version 0.0.1

Animal Logic Assignment

July 28, 2020

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Welcome to plaindb's documentation!

Usage

Help

```
$ python ../plaindb/app.py -h
usage: app.py [-h] [-n NAME] [-a ADDRESS] [-p PHONE] -f FTYPE [-v VALUE] [-o]
              (-i | -q | -u | -b)
```

This is a complex db of the world that's so simple.

optional arguments:

-h, --help	show this help message and exit
-n NAME, --name NAME	Name of the Person.
-a ADDRESS, --address ADDRESS	Address of the Person.
-p PHONE, --phone PHONE	Phone Number of the Person.
-f FTYPE, --file FTYPE	Core Database File Type. json/csv. Default is csv.
-v VALUE, --value VALUE	New Value to be passed with -e/--edit option.
-o, --out	Display the result in a web page. Used with -q option.
-i, --insert	Insert Records to the DB.
-q, --query	Query Records of the Person.
-u, --update	Update the Record of the Person.
-b, --blow	With power comes responsibility. This blows your database.

Sample Commands

```
python plaindb/app.py -i -n smruti -p 0480253590 -a "4 VICTA ST" -f csv
```

Note

The above syntax inserts a record in a csv based file.

```
python plaindb/app.py -i -n smruti -p 0480253590 -a "4 VICTA ST" -f json
```

Note

The above syntax inserts a record in a json based file.

```
python plaindb/app.py -q -n smruti -f json
```

Note

The above syntax queries record from json based plain db. -q indicates the beginning of a **select** statement. -n indicates querying for the table using name predicate. The above command translates to following query.

```
SELECT * from TABLE WHERE name = 'smruti' ;
```

```
python plaindb/app.py -q -n sm* -f json
```

Note

The select statement also supports regex characters. The above command returns all records from the table that matches the name starting with **sm**.

```
python plaindb/app.py -q -n smruti -p 480976000 -f csv
```

Note

The select statement also supports multiple predicates. The above command translates to :

```
SELECT * FROM table WHERE name = 'smruti' OR phone = '480976000';
```

```
python plaindb/app.py -e -n smruti -p mohanty -f csv
```

Note

The Update statement gets triggered with the selection of -e option. The above command translates to :

```
UPDATE table_name SET name = 'mohanty' WHERE name = 'smruti';
```

Run Tests

```
`tox`
```

Plain DB API reference

“Core” module

`core.customlogger` (log_level=None, log_file=None)

customlogger Generates a custom Logging mechanism at INFO or DEBUG level. The Error logs are marked as ERROR. In case the user misses the log file name, it generates a default file by name VM_Restore_dmYHMS.log

Parameters:

- **log_level** –
- **log_file** –

Returns: A Custom logger to console and a file.

`class core.plainDB` (filename: str)

plainDB is classy blueprint for the plain db. Currently this supports 2 version. A csv (default) or a json based database file is created.

`blow` (logger)

blow Destroys the database instance.

Parameters: **logger** – A logger object.

`query` (logger, querytype, **parameters)

query function initiate DML function on the table.

Parameters:

- **self** – The instance of the object.
- **logger** – A logger object.
- **querytype** – select/insert/update.
- **parameters** – name/phone/address

:returns : A status code and a response.

Release Notes

Current Release : 0.0.1

Note

This is for the assignment purpose.

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