

## USER GUIDE TO USE THE DUBNIUM-DB

1. Open a new terminal
2. cd Dubnium
3. Install Dependencies -- pip3 install -r requirements.txt
4. Launch the Application -- python3 main.py

```
○ sakshitokekar72@Mac Dubnium % python3 main.py
-----
DubniumDB CLI
For supported commands use: "help;".
-----
```

5. init db;

```
Dubnium-db> init db;
Table system_tables created.
Table system_columns created.
Database created.
```

6. Command for creating a table -- CREATE TABLE <table> (column datatype constraint);

```
Dubnium-db> create table employee(eid int, fname text, lname text, salary int);
Table employee created.

Dubnium-db> create table department(dno int, dname text);
Table department created.
```

7. Command for displaying all the tables -- SHOW TABLES;

```
Dubnium-db> show tables;
+-----+
| table_name |
+-----+
| system_tables |
| system_columns |
| employee |
| department |
+-----+
```

8. Command for inserting data into a table -- INSERT INTO TABLE (<column list>) <table> VALUES (<value list>);

```
Dubnium-db> insert into table (eid, fname, lname, salary) employee Values (1, "Pooja", "Korake", 5000);
```

9. Command for creating a new index -- CREATE INDEX <table> (<column>);

```
Dubnium-db> CREATE INDEX department (dno);
Index department.dno created.
```

10. Command for dropping an index -- DROP INDEX <table> (<column>);

```
Dubnium-db> drop index department (dno)
;
Index department.dno dropped.
```

11. Command for querying -- SELECT <column list | \*> FROM <table> <WHERE condition>;

```
Dubnium-db> insert into table ( eid , fname, lname, salary) employee Values (2, "Sakshi", "Tokekar", 6000);
```

```
Dubnium-db> select * from employee;
```

eid	fname	lname	salary
1	Pooja	Korake	5000
2	Sakshi	Tokekar	6000

12. Command for updating records in the table -- UPDATE <table> SET <set directives> <WHERE condition>;

```
Dubnium-db> update employee SET salary = 8000 where eid = 1;
```

```
Dubnium-db> update employee SET salary = 10000 where eid = 2;
```

```
Dubnium-db> select * from employee;
```

eid	fname	lname	salary
2	Sakshi	Tokekar	10000
1	Pooja	Korake	8000

13. Command for deleting records from the table -- DELETE FROM TABLE <table> <WHERE condition>;

```
Dubnium-db> delete from table employee where eid = 2;
```

```
Dubnium-db> select * from employee;
```

eid	fname	lname	salary
1	Pooja	Korake	8000

14. Command for dropping a table -- DROP TABLE <table>;

```
Dubnium-db> drop table employee;  
Table employee dropped.
```

```
Dubnium-db> show tables;
```

table_name
system_tables
system_columns
department

15. Command to clear the screen – clear;  
16. Command to exit the application – exit;

```
Dubnium-db> exit;  
s@shitokekar72@Mac Dubnium %
```