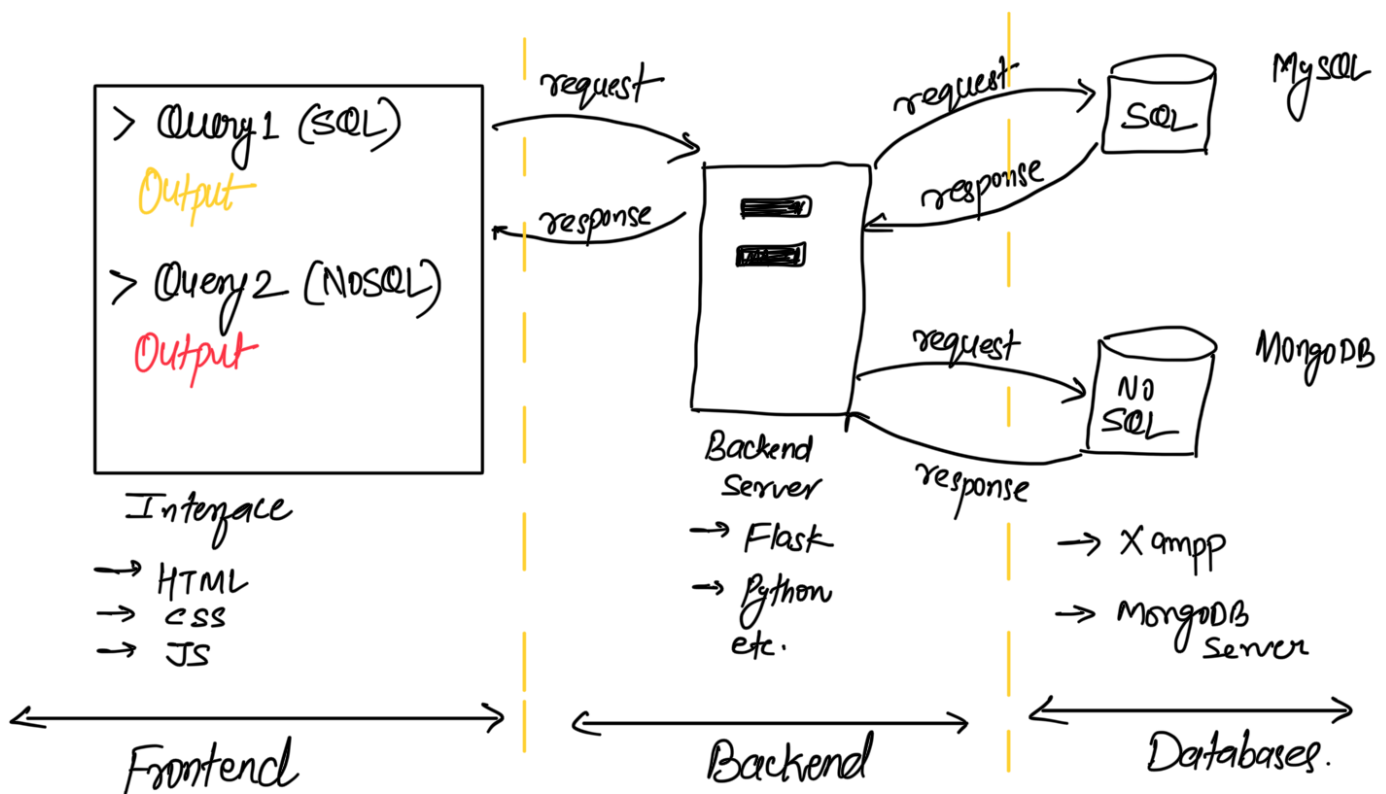
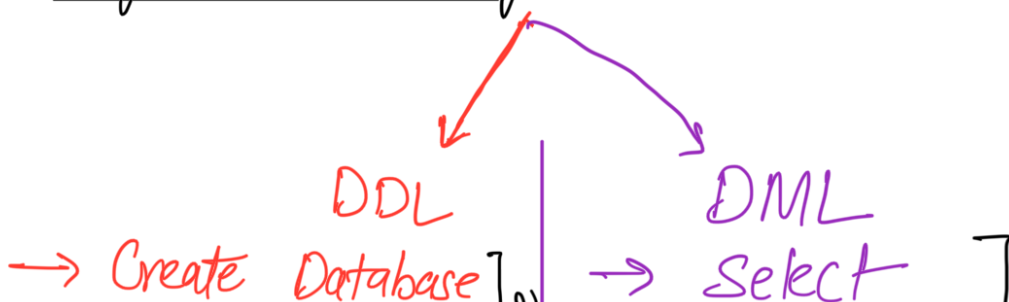
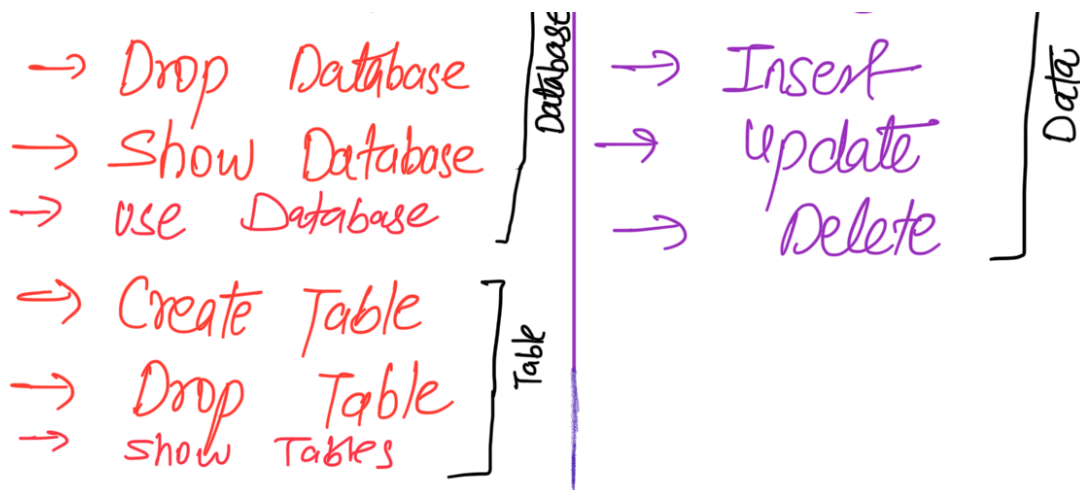


- Project Name : Unified Query Interface for multiple databases
- Project Category : Utility tools [ (1) Interface for multiple databases (CLI)   
 (2) Query language ]
- Project Architecture :



- Project Functionality :





DDL → Data Definition language

DML → Data Manipulation language

DCL → Data Control language (Grant, Revoke)

TCL → Transaction Control language (Commit, Roll back etc)

\* For future Implementation

→ more DDL, DML Commands

→ Add DCL, TCL

(1) Database functionality :

- (A) create database
- (B) show databases
- (C) delete database
- (D) use database

SQL	NO SQL
✓	✓
✓	✓
✓	✓
✓	✓

(2) Table functionality :

- (A) create table

SQL	NO SQL
✓	✓

- (B) delete table
- (C) show tables

✓	✓
✓	✓

### (3) Data Functionality :

- (A) insert data into table
- (B) show data from table
- (C) update data
- (D) delete data

SQL	MySQL
✓	✓
✓	✓
✓	✓
✓	✓

### • Query Structure/syntax/commands available :

- (1) help
- (2) hello
- (3) clear

] General  
Commands

\* SQL : (MySQL)

- (1) create database <databaseName>
- (2) show databases
- (3) delete database <databaseName>

] SQL  
Database  
Query

(4) use database <databaseName>

(5) create table <tableName>  
( <columnName> <Datatype> <AUTO-INCREMENTS> <PRIMARYKEY>,  
    <columnName> <Datatype> ,  
    - - - - -  
)

SQL  
Table  
Query

(6) delete table <tableName>

(7) show tables

(8) insert into <tablename> (<column1>, <column2> --)  
    values (value1, value2 - - - - -)

SQL  
Data  
Query

(9) show from <tablename>

(10) delete from <tablename> where <condition>

(11) update data in <tablename> set <column=value> where condition

\* NOSQL : (MongoDB)

(1) Create n.s database <databaseName>

} NoSQL

or

create ns database <databaseName> <CollectionName>

Database  
Query.

(2) show ns databases

(3) delete ns database <databaseName>

(4) use ns database <databaseName>

(5) create collection <CollectionName>

(6) delete collection <collectionName>

NO SQL  
Collection  
Query.

(7) show collections

(8) insert data into collection <CollectionName> <jsonData>

(9) show data from <CollectionName>

or

show data from <CollectionName> column1 column2 ... where <Condition>

NO  
SQL  
Data  
Query

(10) delete ns data from <CollectionName> where <Condition>

(11) update ns data in <CollectionName> set <field1=value1>, <field2=value2> where <condition>