DBMS   e-Commerce   Flipkart/Amazon

                add   stock   sell   users(customers,
                products   manag-   products   sellers)
                                 emnet
                                                              Python,Java

                                                              Develop an application
            1. user.txt -> Write,Read   to store and manage the data
            2. products.txt   in the file
                  - Add
                  - Update
                  - delete
                  - read

        ┌───┐
        │ Web/Mobile Application   │
        │   │
        │ UI   │
        │   │
        │   │
        └───┘
        ┌───┐ DBMS
        │   │
        │   ┌──────────────────────────┐   │
        │   │ Python/Java   │   │
        │   │ Application   │   │
        │   │   │   │
        │   │ READ/WRITE Operation   │   │
        │   │   │   │
        │   └──────────────────────────┘   │
        │   │
        │   ┌──────────────────────────┐   │
        │   │ user.txt   │   │
        │   │ product.txt   │   │
        │   │ orders.txt   │   │
        │   └──────────────────────────┘   │
        │   HDD   │
        └───┘

        Server
        ┌──────────────────┐
        │ Data   │
        │ ┌──────────────┐ │   ┌───────────────┐
        │ │ DBMS   │ │   │   │
        │ │   │ │   │   │   client-1
        │ │   │ │   │   │
        │ └──────────────┘ │   └───────────────┘
        │   │   ┌───────────────┐
        │ ┌──────────────┐ │   └───────────────┘
        │ │ DBMS   │ │
        │ │   │ │   ┌───────────────┐
        │ │   │ │   │   │
        │ └──────────────┘ │   │   │
        │   ┌────┴──────┐   │   │
        └──────────────┤   ├─────────────└───────────────┘
                       │   │   client-3
                       │   │
                       │   │
                       └───────────┘
                         client-2

        Structured Data
        UnStructerd Data

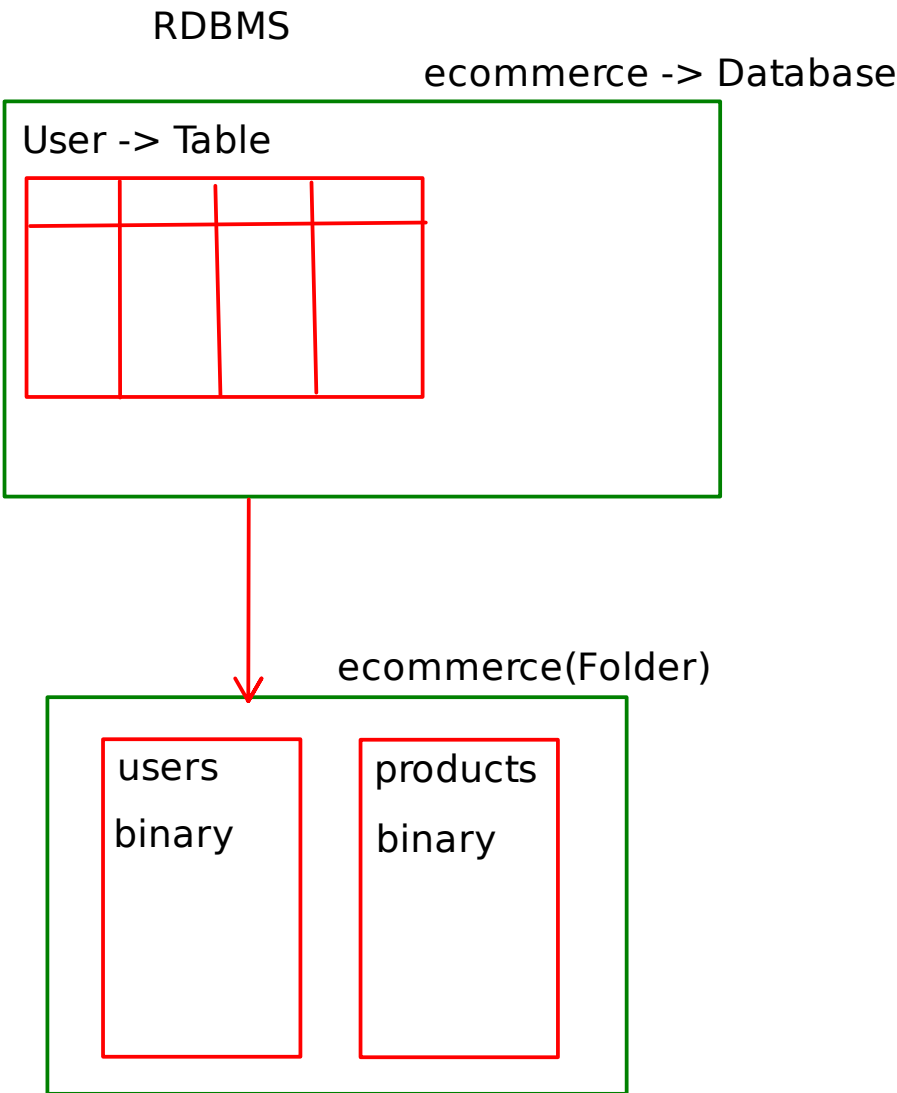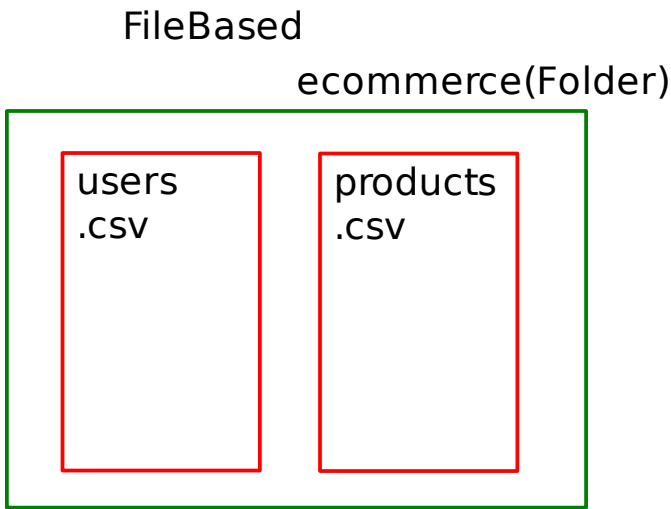User : - Seller/Customer
name
email
password
mobile
address

Structured Data

RDBMS
Relational DBMS
MySQL
Oracle
MsSQL

Product : - Washing Machine / Fridge / Mobile
company name -
Model -
price -
moter ->
Compressor ->
Ram ->
Processor ->

UnStructured
Mongo

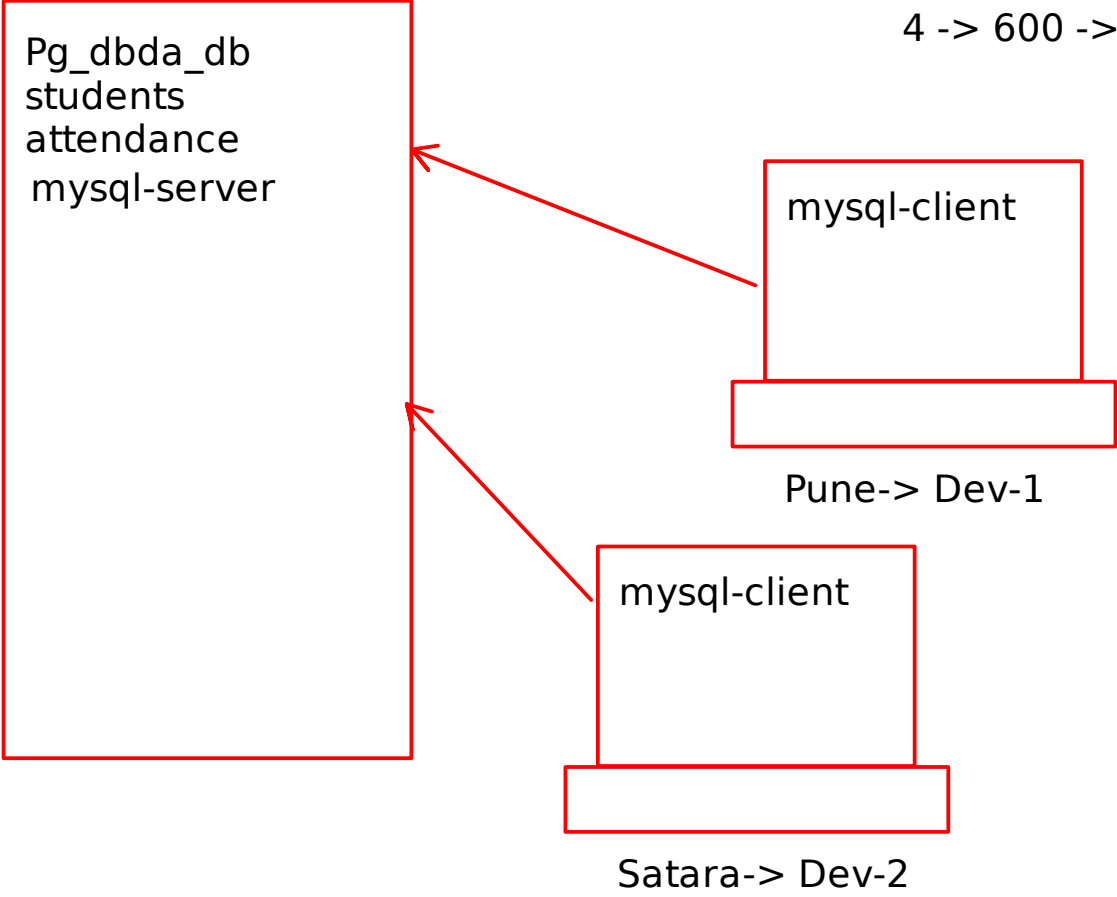RDBMS -> MySQL -> SQL language

FileBased

ecommerce(Folder)

users .csv	products .csv

RDBMS

ecommerce -> Database

User -> Table

ecommerce(Folder)

users binary	products binary

SQL Language->
DDL -> Data Defination Language
     - CREATE, DROP, ALTER,RENAME
DML -> Data Manipulation Language
     INSERT, UPDATE, DELETE
DQL -> Data Query Language
     SELECT
DCL -> Data Control Language
     - CREATE USER, GRANT, REVOKE
TCL -> Transaction Control Language
     START TRANSACTION, COMMIT, ROLLBACK

mysql -h localhost -u root -p
mysql -> tool used to launch the application
-u -> username
root -> username of the user
-p -> password

mysql-server , mysql-client

Server-> Karad

Pg_dbda_db
students
attendance
 mysql-server

mysql-client

Pune-> Dev-1

mysql-client

Satara-> Dev-2

4 -> 600 -> 2400*30 -> 72000 -> 68000

DECIMAL(7,2)
12345.67

∧

⌐

? -> Database administrators

c1-> char(4)	c2 -> varchar(4)	c3 -> text
ab	ab	ab
abc	abc	abc
abcd	abcd	abcd

CREATE TABLE temp(c1 char(4),c2varchar(4),c3 text);
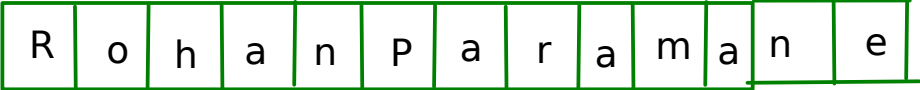
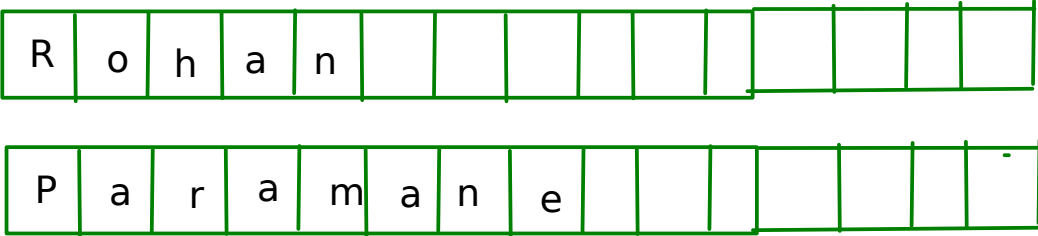INSERT INTO temp VALUES("ab","ab","ab");

temp1

fName char(15)	lName char(15)
Rohan (CDAC)	Paramane

1   30 bytes

temp2

fName varchar(15)	lName varchar(15)
Rohan	Paramane

13 bytes

R	o	h	a	n										

R	o	h	a	n	P	a	r	a	m	a	n	e

P	a	r	a	m	a	n	e							

student
rollno - int
name - string
marks - float

CREATE DATABASE dbda_db;
USE dbda_db;

CREATE TABLE student(
rollno INT,
name VARCHAR(15),
marks DECIMAL(5,2)
);