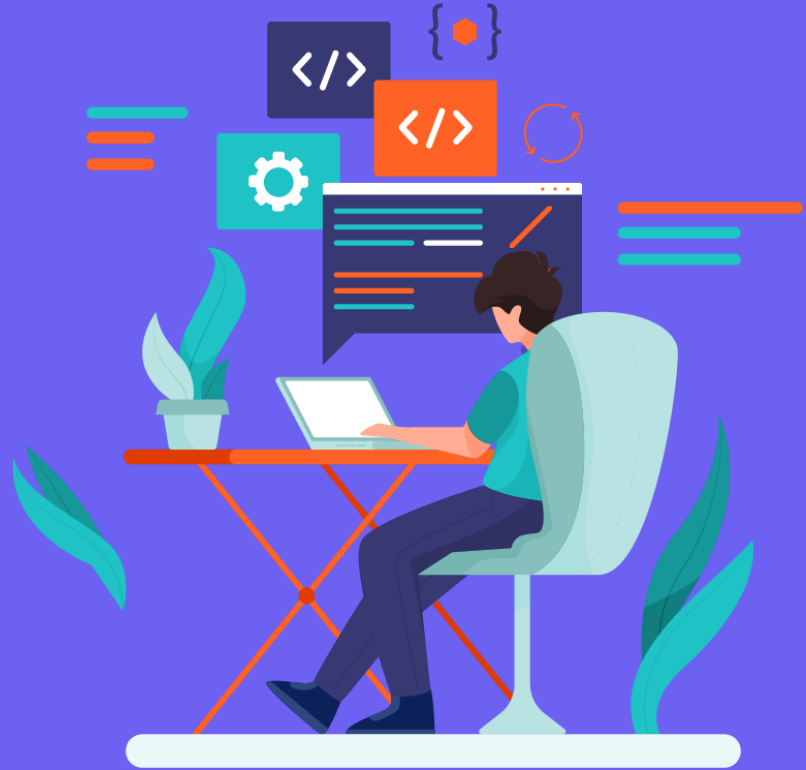


# SQL

**Relevel**  
by Unacademy



## Problems

- Data is huge.
- Management
- Slow processing
- Data security
- Difficult to input & fetch the data out
- Expansion

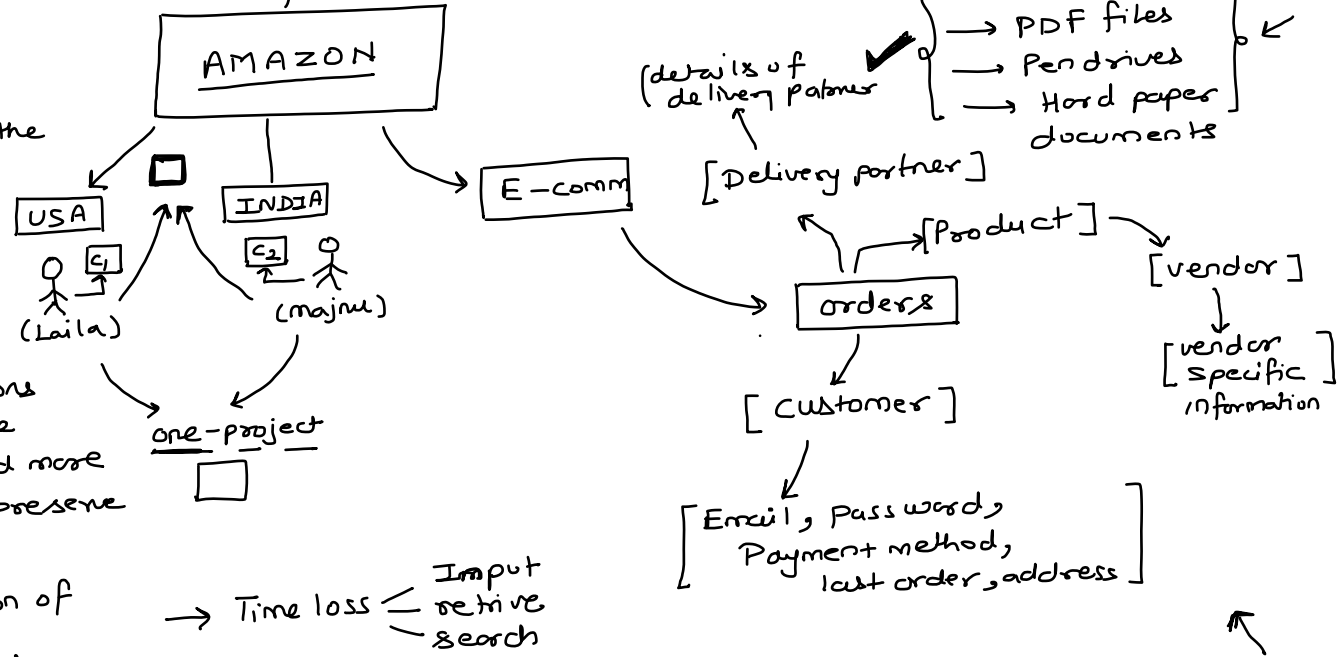
## Problems

→ The traditional data storage are having their own limitations regarding storage and hence amazon would need more and more of such storage options to preserve their data.

→ Logical arrangement & collection of the data is not possible.  
They would face issue with data ingestion and retrieval

\* → Same view : Mismatch in analysis and the project outcome

## Problem

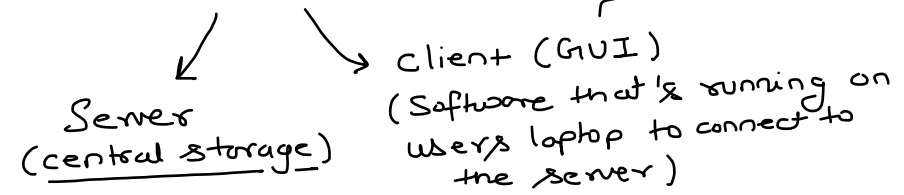


→ Time loss  $\leq$  Input  
retrieval  
search

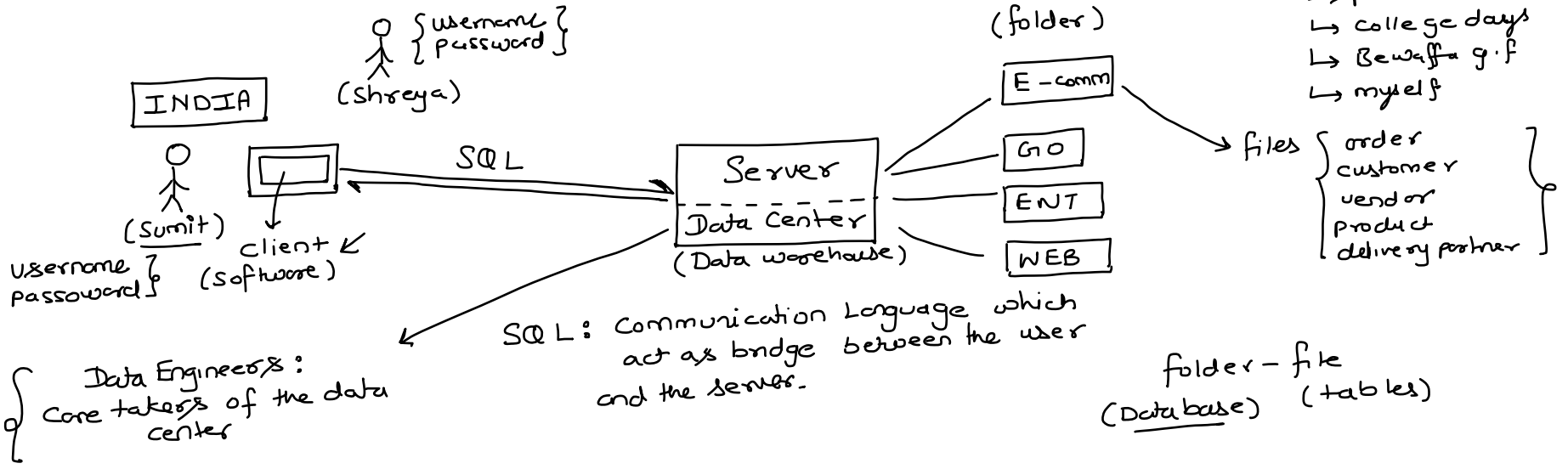
# RDBMS : Relational Database Management System

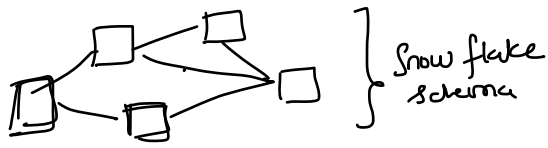
## Software Infrastructure

graphical user interface



photographs  
↳ parents  
↳ college days  
↳ Bewafa g.f  
↳ myself





Company Database ←  
multiple files (tables)

Employee table

E.id	Name	Joining Date	Sal	Dep. id

Records (rows)

foreign field

(Snowflake schema)

(Dep. id)

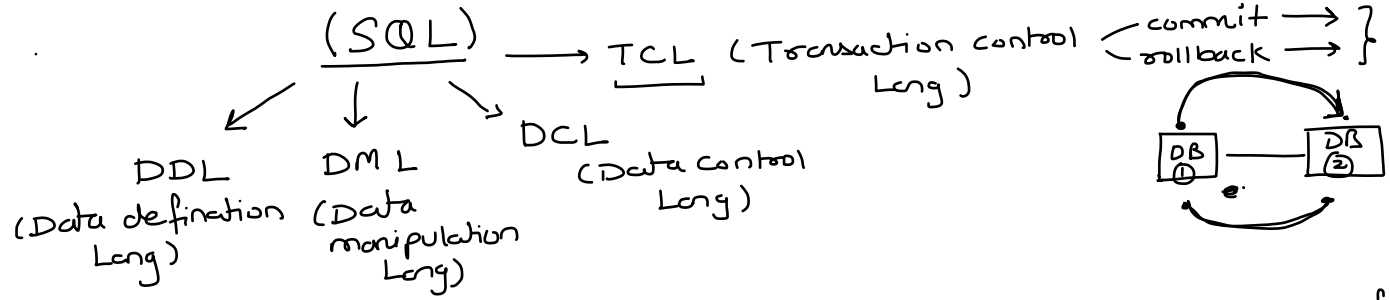
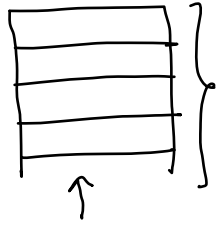
Department table

Dep. id	Dep Name	# of employees
	HR	10

primary field  
(unique value  
no nulls)

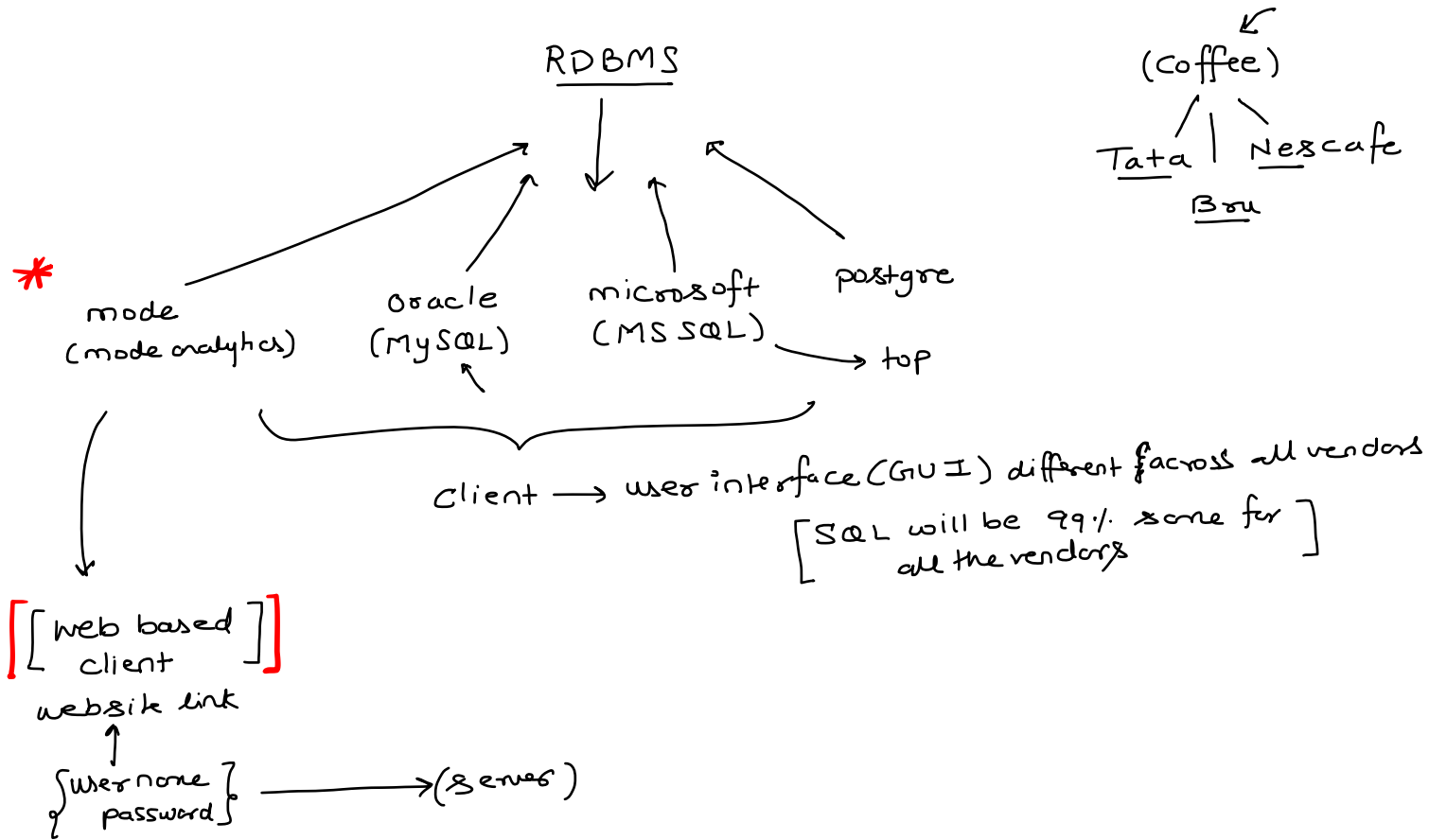
(foreign field + primary field)  
Relationship

• a particular primary field is known as foreign field if found in any other table.

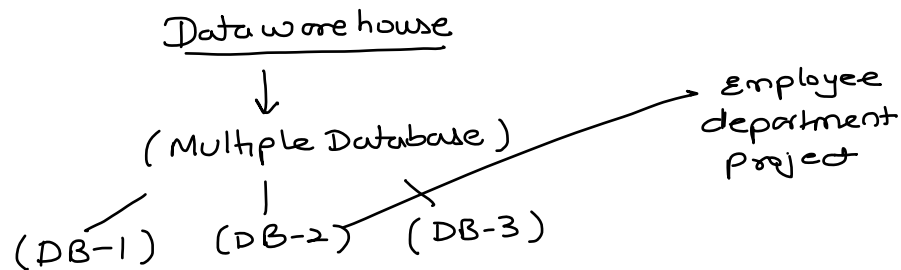


English { — } Segregated based on the purpose of usage

- { DDL : Data Definition Long : Data Engineering team to create, delete, replace a Database / table in the Data center (Server) { Create, Alter, drop, truncate, rename. }
- { DCL : Data Control Long : These are the set of commands used by Data Engineering team to provide the access to or to revoke the access of a user to the server { grant, revoke }
- { DML : Data Manipulation Long : These are used by BA/DA to manipulate the data available in the server to find the answers of various questions. { Select, from, insert, update } ↖



(SQL is a case insensitive Language)



- ① Select a database out of all databases available in the datawarehouse, in which we want to write the SQL query and find out various answers.

Empid	Name	age	Exp	Depid

USE DB-2 ; → we use this to let the editor understand that we are done writing a query (end of the query)

- ② Now we can query any table from this database

I want to select → Select \* → all fields/records  
from employee ;  
→ following table.

Select \*

from sessionwithsumit . employee-data ;

                    Name of the                      table name  
                    database