

DBMS

Databases

Collection of Data

→ Products on Flipkart

→ Students data on classroom.
cityoda.com

→ Users of Social Networking
sites.

Data?
Text, Video
Speech
info

DBMS

Database Management Systems

- ① Storing the data
- ② Seiving the data
- ③ Retrieving the data
- ④ Manipulate/Edit/Update data.

Types of DB Systems

→ Tables

✓

	A	B	C	Header
Row	Name	Mark	Marks	Marks
S1	10	9	17	
S2	11	3	20	
S3	15	5	25	
S4	20	7	30	

Row

Column

① Relational | mysql, oracle

② Non Relational → X Tables

JSON → dict in python
→ map in Java

mongoDB
elasticsearch } NoSQL

dc

RDBMS

Relational Database Management System

→ SQL → Structured Query language

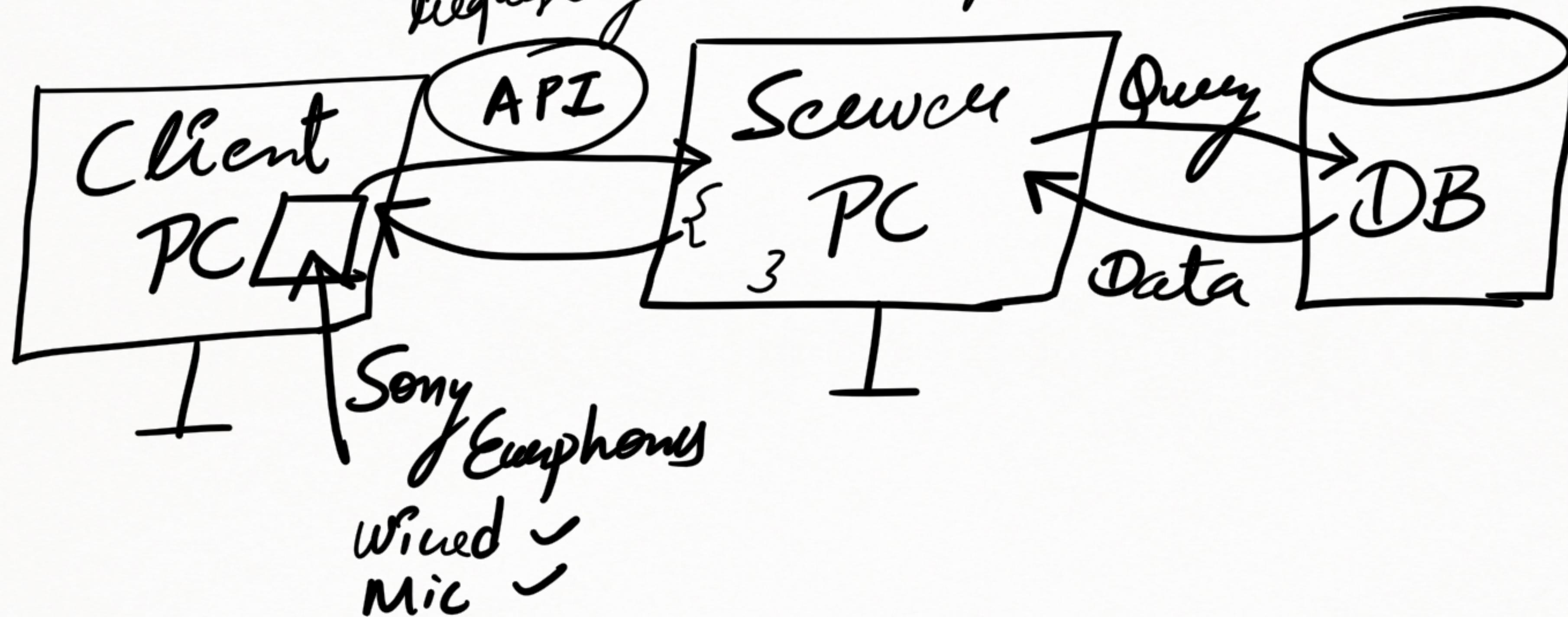
Programming language → Retrieve, Manipulate
Store, Create DB,
Create Tables.

✓ ✓ ✓ ✓
~~CRUD~~

Create Read Update Delete

3-Tier Architecture

requesting data through Internet



SQL

- Not a Case Sensitive language
Select, SELECT, SeLeCt } ✓
SELECT
- Delimiter => ; ✓
- Conventions => SQL Keywords => CAPITAL
Not a SQL Keyword => small

Table-1

IM



Stud-id	Name	Major
1	Sai Datta	IT
2	Saurabh.R	Elec
3	Rahul Ds	Mech
4	Abhay	Comp.S

Table-2

Major	Subjects
IT	Elec, Mech, C
Elec	Omega, S2, ²⁰²²
C.S	Python, C#

Q1. What are the subjects which
Abhay will be studying

