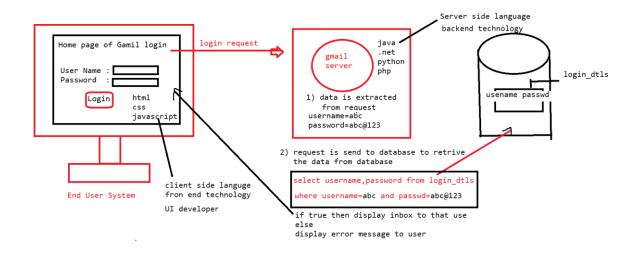
SQL Day 1

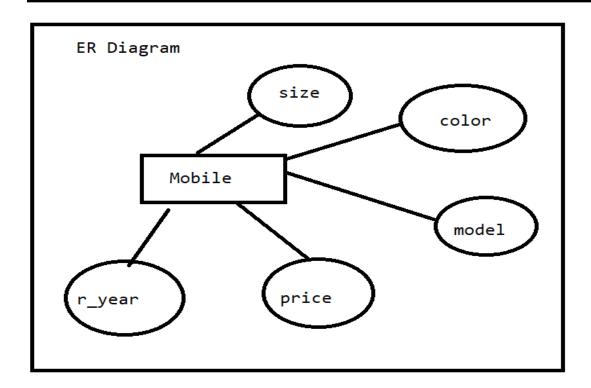
Client Server request and Response flow



Mobile(product_code, size, price, model,release_year,make, color)

Here Mobile is entity and its properties are product_code, size , model release_year etc

From this information ER digram will be drawn



With the help of this ER digram database is designed								
-> Entity name become Table name								
-> Entity attribute/properties will become column name								
Mobile								
product_code	size	price	model	r_year	make	color	ram	processor
product_code	size	price	model	r_year	make	color	ram	processor
product_code	size	price	model	r_year	make	color	ram	processor

Q. What is mean by Object or Entity?

Ans: Anything in the real world is known as Object or Entity. Examples: Mobile, Laptop, Tree, Bird, Person, Scholl, College, University.

Every object or every entity has some properties or attribute.

For Example: Mobile has properties like - size, color, wight, Brand

Q. What is Data?

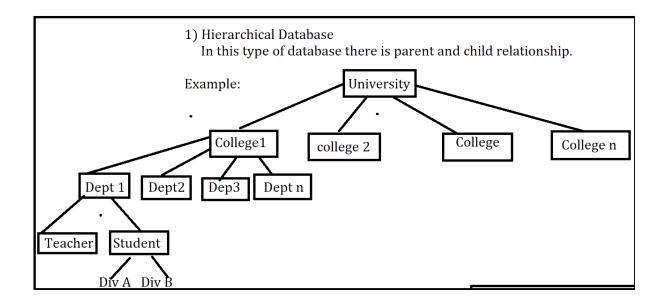
Ans: Any fact related to any object is considered as Data.

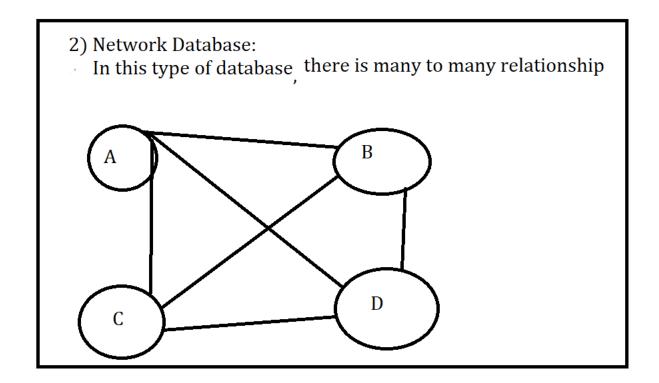
For Example: Mobile has properties like - size, color, wight, Brand

Q. What is mean by Database?

Ans: Systematic collection of data is nothing but Database

Types of Database.





3) Centralized Database:

In this type of Database whole data is store at single place

Example: College Central Library

4) Distributed Database

In this type of Database, same data is stored at different different location

copy1

Copy 2

Copy 3

- 5) No SQL Database
- 1) No SQL or Not only SQL
- 2) It store data not only in tabular form but also in other forms

Example of NoSQL is Mongo DB

```
"id": 101,
"id": 101,

"name": Abc,
"name": Abc,

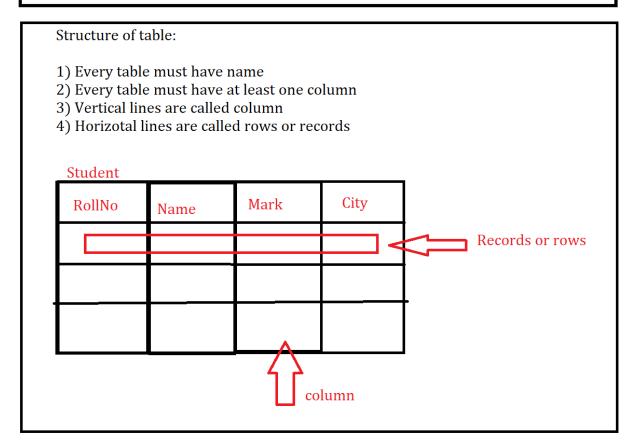
"percentage": 65.65
"percentage": 65.65
```

5) Object Oriented Database:

In this type of Database, data is stored in the form of object

Example: PostgreSQL

- 6) Relational Database
- 1) It is most popular and most widely used type of database.
- 2) In this type of database, data is stored in the table
- 3) It is based on Relational Model which is introduced by E.F Codd



Interview Question on this topic

- 1) Is it possible to have table without name?
- 2) What are different types of Databases?
- 3) Is it possible to have table without column?