- e No sal has advantage of short time but data duplication
- No SQL can enter more columns data than my dataset has in stored data

	`SQL	NO SQL
Stored Data	Employee table	?
	Evipno Ename job	
	7369 SMITH CLERK	
	7499 ALLEN. SALESMAN	
	7521 WARD SALESMAN	
	7566 JONES MANAGER	
	7654 BLAKE MANAGER	
Insert New	Row1 800 Mohamed Engineer Row2 801 Ali HR Row3 802 Eman Sales	Row1 (Empno: 800 , Ename: "Mohamed", job: "Engineer") Row2 (Empno: 801 , Ename: "Ali", job: "HR", age: 15) Row3
Data	BUZ Ellian Sales	(Empno: 802 , Ename: "Eman", job: "Sales", address: "Egypt")

- I do that by keys = D name of the column

 In My SQL or SQL : that fixed skema

 No SQL = Dynamic sckema
- known keys for the system before = sall in one table & I

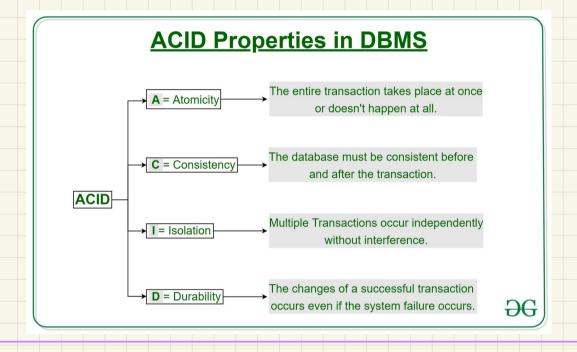
 Can add them as text

Commit or roll back - Atomic

ACID

Durability = ensure the process is done by check the log

Isolation -s each process is isolated from the other Consistency -s add or sub



NO SQL - BASE

Basically Available

2) Evential Consistency = Eill the replication

(3) Soft state

NOSQL Types key -value Document = precord = plagical grouping of key values Multiple Record - D multiple record Graph written by Graph QL Column family why NoSQL: varie ty velocity

which can accept

more columns in

the runtime

- Jason formatter & validator

Json files

name: "ahmed", address: ?" City": "mansoura" 3 a: { "city": "mansoura", "country"; Egs 2, id": 10) name: "ahmed", address: 2" City". "mansoura" 3 £ 'id": 10) name: "ahmed", address: ¿" City": "mansoura" }

multiple records

ro composite

```
"id": 10,
name: "ahmed",
address: ["mansoura", "alex"], "caird]
                                               "mansoura",
"alex",
"cairo"
```