LET'S START WITH SQL :)

Intension and Extension in DataBase

Intension in Database :

The intension defines what kind of data can be stored and the relationships between them. This is basically the blueprint or definition of the database structure. It doesn't change frequently and its the permanent definition of the database structure.

It includes:

- Table definitions(name of tables, their columns, and the data types allowed in each column)
- Constraints(Rules that govern the data, such as primary keys, foreign keys, and data validation rules)
- Relationships between tables(how tables are connected through shared columns)

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Intension and Extension in DataBase

Intension in Database

Example:

```
customer(
id INT PRIMARY KEY,
name VARCHAR(50))
```

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Intension and Extension in DataBase

Extension in Database :

The extension is the actual data stored in the database at a given instance in time.
Basically the data which is stored in tuples/rows at a given instance of time.
When there are more tuples added the data can change .

Employee

id	name	departmen
1	Rahul	'IT'
2	Afsara	'HR'
3	Abhimanyu	'IT'

Data at instance t1

Employee

id	name	departmen
1	Rahul	'IT'
2	Afsara	'HR'
3	Abhimanyu	'IT'
4	Aditya	'Marketing'

Data at instance t2

Employee

id	name	departmen
1	Rahul	'IT'
2	Afsara	'HR'
3	Abhimanyu	'IT'
4	Aditya	'Marketing'
5	Raj	'Finance'

Data at instance t3