## <u>Statistics</u>

Definition: Stadistics is the science of collection, organizing and analyzing data.

## DATA:

"Facts or pieces of information" => Measured, colleted, analyzed

Number of rooms

Example: weights of students in the class

IQ of the students in class:

{100, 90, 95, 99, ...}

## House price dataset:

Area

100	2	10	Atlixco )	1
1250	3	15	Puebla (	nalyzing this day
1350	4	15	Puebla 🗸	J 497
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City

Price

## Applications

- 1) Data exploration and summarize
- 2) Model Building and validation
- 3) Statistical Analysis => sample data => Population data
- 4) Hypothesis Testing
- 5) Optimization and efficiency
- 6) Reporting