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Recap:- Database Creation
Creating Tables
Insertion of Records in Table
Completed the JOIN
Delete operation
Update operation

} mysql

Agenda:-

- Completing the mysql
 - Statistics in data science
- }

Primary Key:

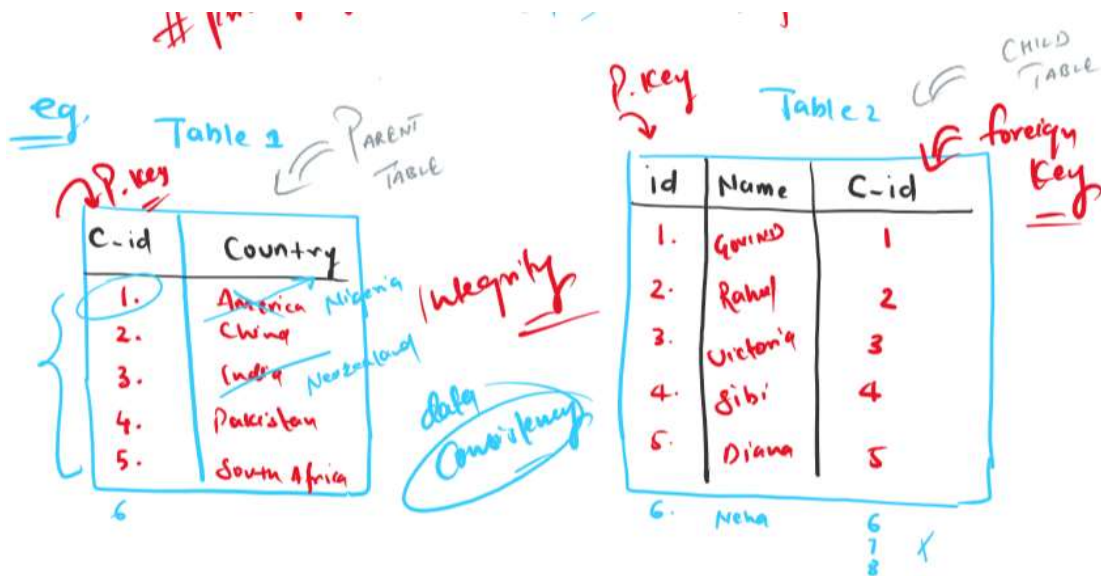
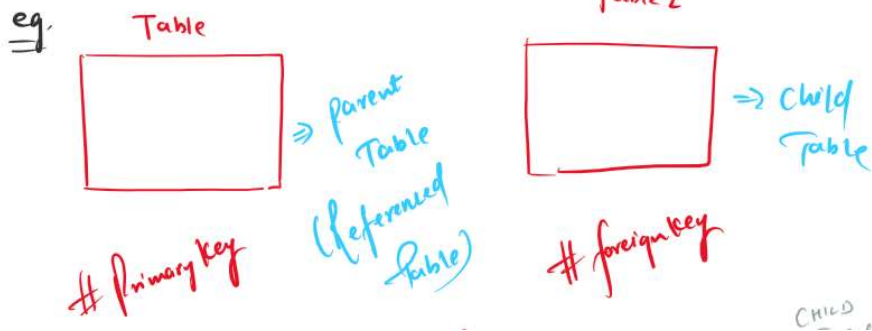
We use Primary Key to Uniquely Identify the Record in a Table.

eg. empl.id

- ↳ That column has Unique Value
- ↳ That column shouldn't have null value.

foreign key:-

We use this concept to link two tables together.



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Statistics

↔

- It is a branch of Mathematics
- Here we deal with data collection,
data analysis,
data presentation,
data organisation etc.

Types of statistics:

- ① Descriptive statistics
- ② Inferential statistics

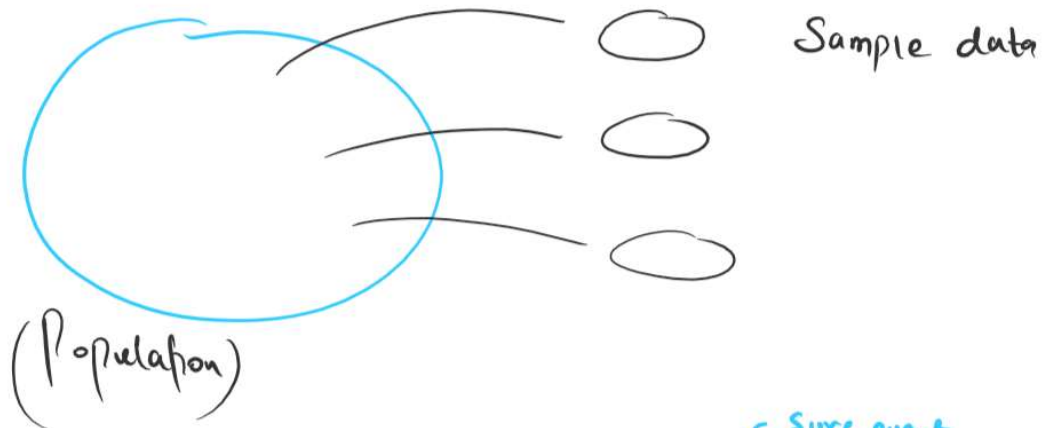
* describe ^(summarise) the data

- ✓ Mean ✓
- ✓ Median ✓
- ✓ Mode

* It deals with population data.

* You describe the data
in terms of probability.
+ you deal with
sample data

Population data and sample data:



⇒

Pos Coin :

$[0 - 1]$
 ↑ Impossible
 ↙ Sure event

⇒

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What is the probability for head:-

Dice Cludo

⇒ Total event = 2

1 head = $\frac{1}{2} = 0.5 \Rightarrow 50\%$

1 tail = $\frac{1}{2} = 0.5 \Rightarrow 50\%$

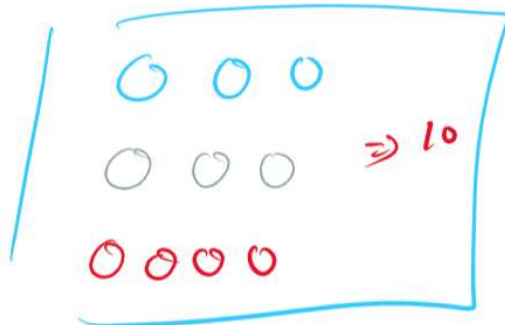
Q: you rolled a dice:-

⇒ Total outcome = 6

⇒ P. of getting 4 = $\frac{1}{6} = \frac{1}{6} \times 100 = 16.66\%$

⇒ P. of getting even = (2, 4, 6) = $\frac{3}{6} = 50\%$

Q:



Ans: P. of getting Blue Ball :- $\frac{3}{10} =$ ✓

" " " Red or Blue = $\frac{7}{10}$

P. of getting a Red and Gray = $\frac{0}{10} = 0$ ✓

✓ ✓

$$\text{Probability} = \frac{\text{favourable number of events}}{\text{Total number of events}}$$

sample of events

eg! you tossed 2 coin: ✓

⇒ P. of getting atleast 1 Head =

total case
 $S = \{ HH, TT, HT, TH \} \Rightarrow 4$

favourable = $\{ HH, HT, TH \} = 3$

⇒ $3/4 = 75\%$

Q: you tossed 3 coin:-

P. of getting 2 Head ?



$\{ HHH, HHT, HTH, HTT, THT, TTH, TTT \}$

total cases = 8

favourable = 3

$P(\text{getting 1 Head}) = \frac{3}{8}$