


Topics Covered Today

1. Nested IFs (will cover IFS again in next class)
2. Vlookup
3. Exact vs Approx Match
4. Lookup limitation
5. Match and Index
6. HLookup
7. Array Functions
8. Filter

The excel workbook is provided in the slack channel along with the notes

Agenda

- Some Functions
- lookups
- Array Functions
- Pivot

9:03

⇒ Issues →

- 1) Nulls

→ 10M

- 2) Outliers

→ Date → String

100 {
10
12
13
:
}

Date forward

Num → String

1 → 10,000

- 4) Data Format
Incorrect (long
vs
Wide)

→ 10M →
2M

→ IF (Cond, Value_{True}, Value_{False})

→ Yes

→ No

→ check if
the

team = CSK

Cond -> yes = 2018

→ AND
→ OR

⇒

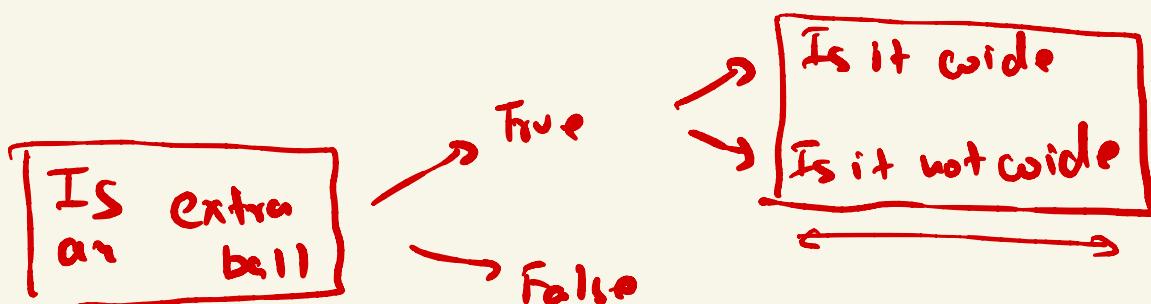
team = "CSK"

year = "2018"

☰ In a match

↳ Tell if a extra ball is balled

↳ if that ball was a wide



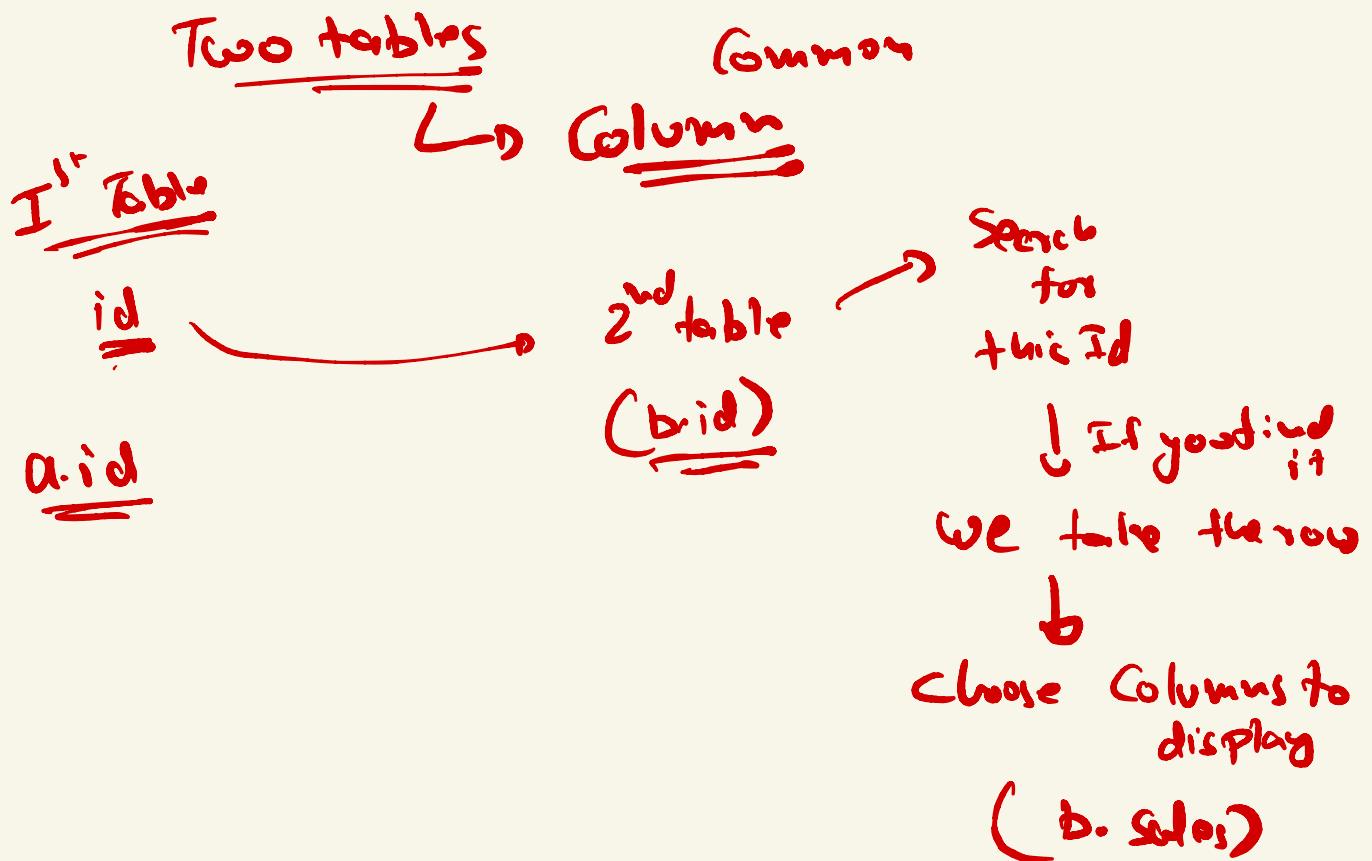
- Yes its extra, No it is not wide
 → Yes its extra, Yes it is wide
 → No its not extra

⇒

IF (extra-ball = True, (), 'No')

IF (extra-type=wide, "wide", "not wide")

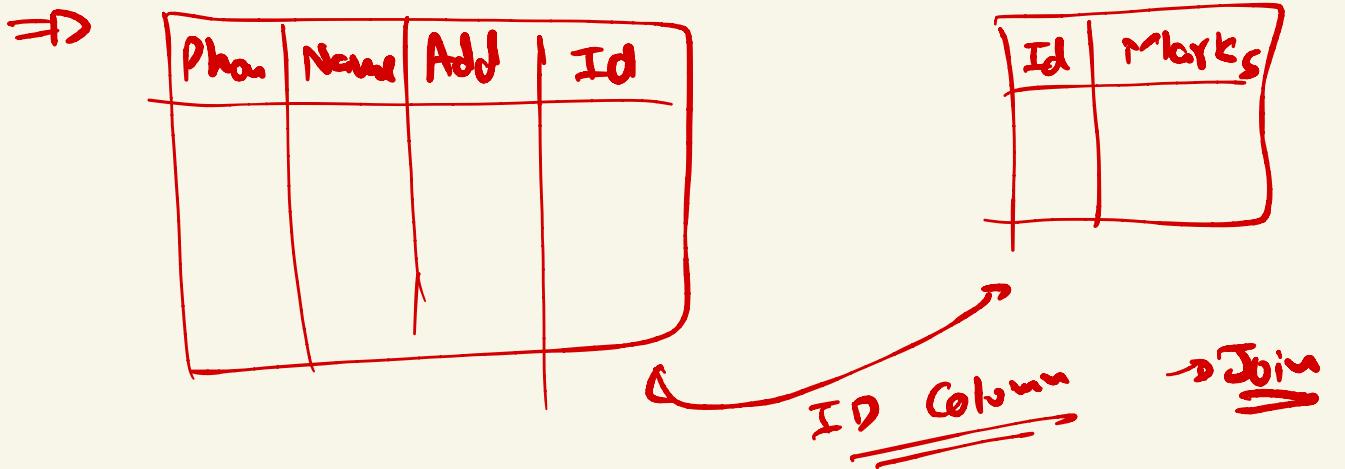
\Rightarrow Joins \rightarrow



\Rightarrow lookups

Id	Name	Plan
01		
02		
03		

01 \leftarrow 01 on the
Id column



vlookup → assumes
that the Searchable Column
is the First Column
of your Table

Limits/Disadvantages

- Search (o) → 1st Col
- Only 1 output ⇒ Solve ^{easy}
- In case of same Id, any result comes

⇒ Match & Index

↳ Match →

Lookup → id

Search in the
First
Column

n^{th} row has the
same id

for k^{th} row we found
the name of
winner

match → id

Search in
the
Column

~~if~~ n^{th} row has same id

Output = n

$\Rightarrow \text{arr} = [0, 1, 2, 3, \dots, 100]$

\hookrightarrow at what position does $\underline{20 \text{ occur}}$
 \downarrow \dots (Match)

Python $\rightarrow 0, \dots$

$\text{arr}[20] = \boxed{20} \rightarrow (\text{Index})$

$\Rightarrow \underline{\text{V Lookup}} \rightarrow \text{vertical lookup}$

\hookrightarrow to search within a column.

$\Rightarrow \underline{\text{H Lookup}} \rightarrow \text{horizontal lookup}$

\hookrightarrow Search with a row

- H Lookup \rightarrow Search row is the Top Row