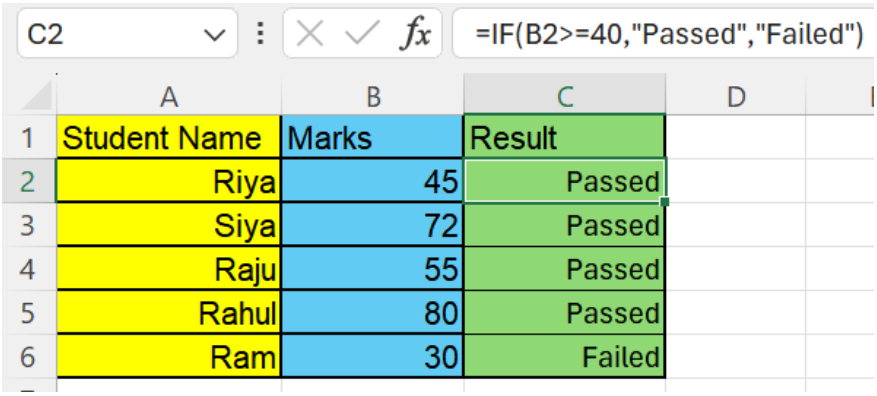
1. Write a formula to check if the marks in cell are greater than or equal to 40. If yes, return B2 "Fail".?

Student Name	Marks
Riya	45
Siya	72
Raju	55
Rahul	80
Ram	30

➔ To check if the marks in cell **B2** are greater than or equal to 40:

- **Formula:** `=IF(B2>=40, "Pass", "Fail")`
- **Results for the table:**
  - Riya (45): Pass
  - Ram (30): Fail

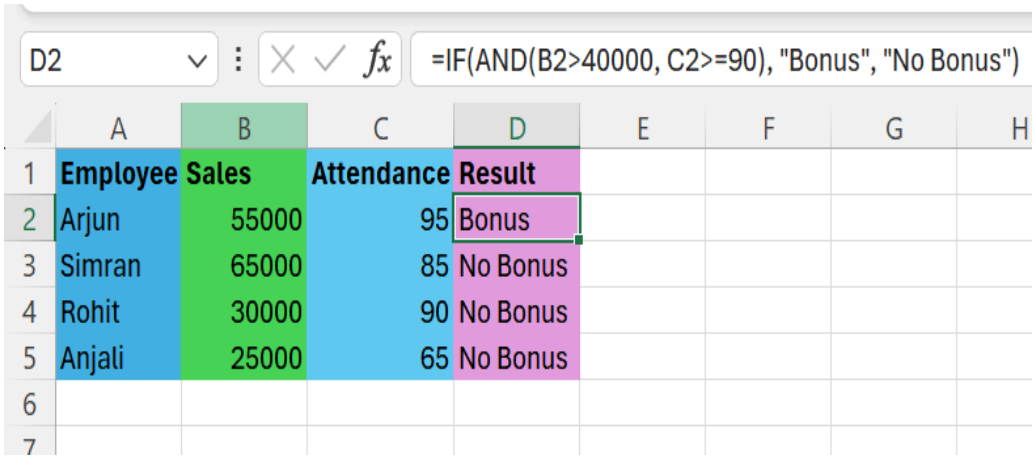


2. A company gives a bonus if sales are above 40,000 and attendance is greater than or equal to 90%. Write a formula to calculate whether the employee will get a bonus or not.

Empl0yee	Sales	Attendance
Arjun	55000	95
Simran	65000	85
Rohit	30000	90
Anjali	25000	65

➔ A bonus is granted if sales are **> 40,000** and attendance is **≥ 90%**.

- **Formula:** `=IF(AND(B2>40000, C2>=90%), "Bonus", "No Bonus")`
- **Results for the table:**
  - **Arjun:** Bonus (55,000 sales, 95% attendance)
  - **Simran:** No Bonus (Attendance < 90%)
  - **Rohit:** No Bonus (Sales < 40,000)
  - **Anjali:** No Bonus (sales<40000, attendance < 90%)



	A	B	C	D	E	F	G	H
1	**Employee**	**Sales**	**Attendance**	**Result**				
2	Arjun	55000	95	Bonus				
3	Simran	65000	85	No Bonus				
4	Rohit	30000	90	No Bonus				
5	Anjali	25000	65	No Bonus				
6								
7								

3. Write a nested IF formula:

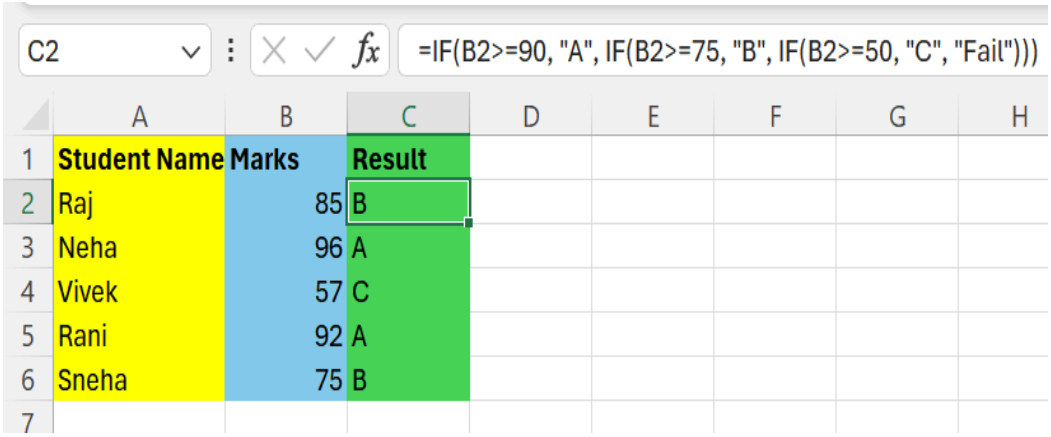
   If marks in B2 are ≥ 90 →"A" , ≥ 75 →"B" , ≥ 50 →"C" , otherwise "Fail".

Student Name	**Marks**
Raj	85
Neha	96
Vivek	57
Rani	92
Sneha	75

➔ To assign grades based on marks in cell **B2**:

- **Formula:** `=IF(B2>=90, "A", IF(B2>=75, "B", IF(B2>=50, "C", "Fail")))`

- **Results for the table:**
  - Neha (96): A
  - Raj (85): B
  - Vivek (57): C
  - Rani (92): A
  - Sneha(75): B

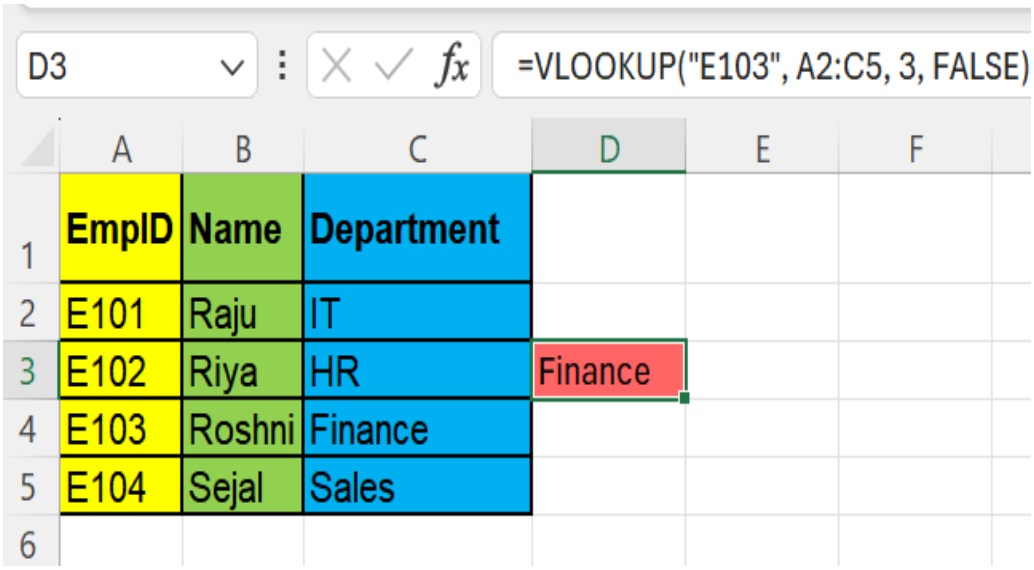


4. Find the **Department** of Employee ID = E103. Also explain which LOOKUP function is used and why?

EmpID	Name	Department
E101	Raju	IT
E102	Riya	HR
E103	Roshni	Finance
E104	Sejal	Sales

➔ To find the department for **EmpID E103**:

- **Formula:** `=VLOOKUP("E103", A2:C5, 3, FALSE)`
- **Result:** Finance
- **Explanation: VLOOKUP** is used because the data is organized vertically and the unique identifier (EmpID) is in the leftmost column of the range.



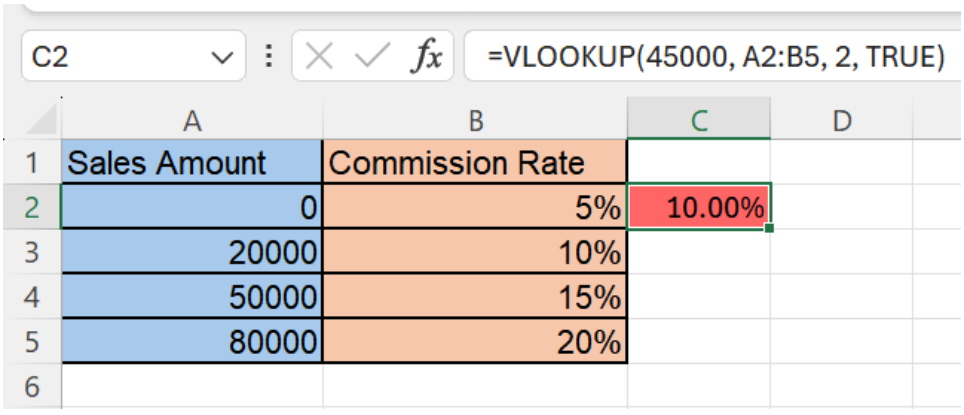
5. A company has set the following **commission structure** for its sales team:

Sales Amount	Commission Rate
0	5%
20000	10%
50000	15%
80000	20%

If a salesperson achieves **sales of ₹45,000**, use the **VLOOKUP function** to determine the **commission rate** applicable.

➔ To determine the commission rate for sales of **₹45,000**:

- **Formula:** `=VLOOKUP(45000, A2:B5, 2, TRUE)`
- **Result:** 10% (Since 45,000 is between 20,000 and 50,000)



6. The HR department maintains the following leave records of employees:onus or not.

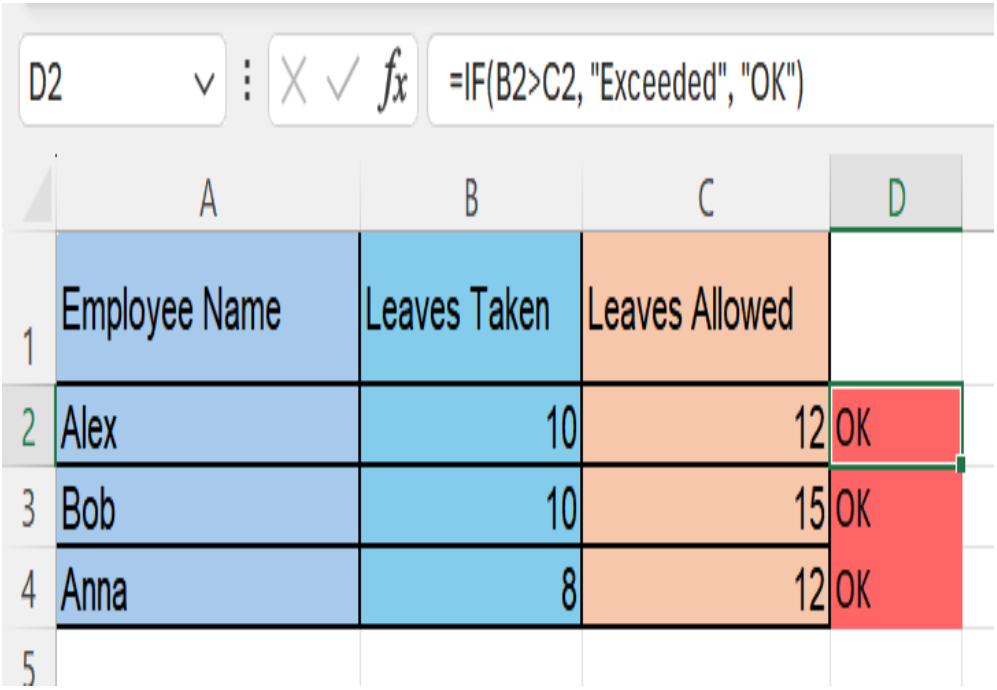
Employee Name	Leaves Taken	Leaves Allowed
Alex	10	12
Bob	10	15
Anna	8	12

Write an **IF function** to check whether an employee has **Exceeded** their allowed leave balance.

- If **Leaves Taken** > **Allowed Leaves**, display **"Exceeded"**.
- Otherwise, display **"OK".**

➔ To check if an employee exceeded their allowed leaves:

- **Formula:** `=IF(B2>C2, "Exceeded", "OK")`
- **Results for the table:**
  - Alex (10/12): OK
  - Bob (10/15): OK
  - Anna (8/12): OK

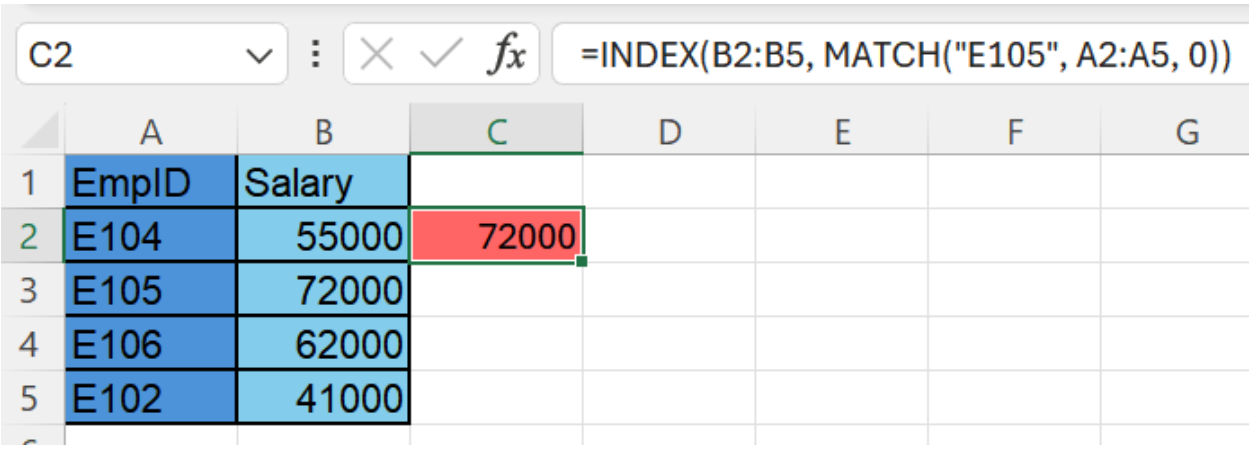


7. Find the salary of EmpID = E105 using **INDEX-MATCH Function.**

EmpID	Salary
E104	55000
E105	72000
E106	62000
E102	41000

➔ To find the salary of **EmpID E105**:

- **Formula:** `=INDEX(B2:B5, MATCH("E105", A2:A5, 0))`
- **Result:** 72,000

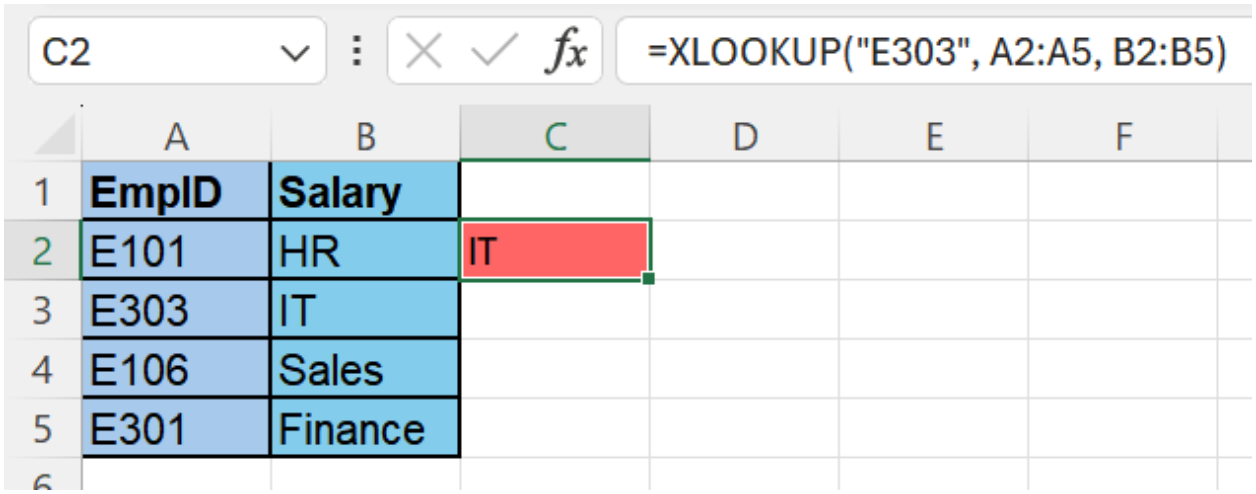


8. Use the **XLOOKUP function** to find the **Department** of the employee with **Emp ID = E303.**

EmpID	Salary
E101	HR
E303	IT
E106	Sales
E301	Finance

➔ **To find the Department of the employee with Emp ID E303:**

- **Formula:** `=XLOOKUP("E303", A2:A5, B2:B5)`
- **Result: IT**


C2
=XLOOKUP("E303", A2:A5, B2:B5)
A
B
C
D
E
F
1
EmpID
Salary
2
E101
HR
IT
3
E303
IT
4
E106
Sales
5
E301
Finance
6