**56 - Most Visited Floor**

You are a facilities manager at a corporate office building, responsible for tracking employee visits, floor preferences, and resource usage within the premises. The office building has multiple floors, each equipped with various resources such as desks, computers, monitors, and other office supplies.

You have a database table named entries that stores information about employee visits to the office building. Each record in the table represents a visit by an employee and includes details such as their name, the floor they visited, and the resources they used during their visit.

**Input Table: entries:**

|  |  |  |  |
| --- | --- | --- | --- |
| **emp\_name** | **address** | **floor** | **resources** |
| Ankit | Bangalore | 1 | CPU |
| Ankit | Bangalore | 1 | CPU |
| Ankit | Bangalore | 2 | DESKTOP |
| Bikaas | Bangalore | 2 | DESKTOP |
| Bikaas | Bangalore | 2 | DESKTOP |
| Bikaas | Bangalore | 1 | MONITOR |

Write an SQL query to retrieve the total visits, most visited floor, and resources used by each employee.

**Expected Output:**

|  |  |  |  |
| --- | --- | --- | --- |
| **emp\_name** | **total\_visits** | **most\_visited\_floor** | **resources\_used** |
| Ankit | 3 | 1 | CPU,DESKTOP |
| Bikaas | 3 | 2 | DESKTOP,MONITOR |

SOLUTION:

WITH TotalVisits AS

(

    SELECT

    emp\_name,

    GROUP\_CONCAT(DISTINCT resources) AS resources\_used,

    COUNT(\*) AS total\_visits

FROM entries

GROUP BY emp\_name

),

MostVisitedFloor AS

(

    SELECT

    emp\_name,

    floor,

    COUNT(\*) AS total\_visits\_per\_floor

FROM entries

GROUP BY emp\_name, floor

)

SELECT

    mvf.emp\_name,

    total\_visits,

    CASE

        WHEN MAX(total\_visits\_per\_floor) THEN floor

    END AS most\_visited\_floor,

    resources\_used

FROM TotalVisits tv

JOIN MostVisitedFloor mvf

ON tv.emp\_name = mvf.emp\_name

GROUP BY mvf.emp\_name