

## Learn with Ankit Bansal



**100 Coding Problems**



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**100 DAY CODING PROBLEMS**

### Step - 1 : Problem Statement

 **Problem Statement:**

#### 17 - BUSINESS EXPANSION

Amazon is expanding their pharmacy business to new cities every year. You are given a table of business operations where you have information about cities where Amazon is doing operations along with the business date information.

Write a SQL to find year wise number of new cities added to the business, display the output in increasing order of year.

 **Difficult Level : MEDIUM**

## NAMASTE SQL - DAY 25

### Step - 2 : Identifying The Input Data And Expected

#### INPUT

BUSINESS_DATE	CITY_ID
2020-01-02	3
2020-07-01	7
2021-01-01	3
2021-02-03	19
2022-12-01	3
2022-12-15	3
2022-02-28	12

#### OUTPUT

FIRST_OPERATION_YEAR	NO_OF_NEW_CITIES
2020	2
2021	1
2022	1

### Step - 3 : Writing the sql query to solve the

```
WITH CTE
AS (
    SELECT city_id
           ,min(year(BUSINESS_DATE)) AS min_year
    FROM business_operations
    GROUP BY city_id
)
SELECT MIN_YEAR AS first_operation_year
       ,count(*) AS no_of_new_cities
FROM CTE
GROUP BY MIN_YEAR
ORDER BY first_operation_year
```



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