1. You're a Compensation analyst employed by a multinational corporation. Your Assignment is to Pinpoint Countries who give work fully remotely, for the title 'managers' Paying salaries Exceeding \$90,000 USD

use case\_study;

select distinct(company\_location) from salaries

where job title like "%Manager%" and salary in usd > 90000 and remote ratio = 100



**2.** AS a remote work advocate Working for a progressive HR tech startup who place their freshers' clients IN large tech firms. you're tasked WITH Identifying top 5 Countries having the greatest count of large (company size) number of companies

select company\_location,count(\*) from salaries
where experience\_level = "EN" and company\_size = "L"
group by company\_location
order by count(\*) desc limit 5



**3.** Picture yourself AS a data scientist Working for a workforce management platform. Your objective is to calculate the percentage of employees. Who enjoy fully remote roles WITH salaries Exceeding \$100,000 USD, Shedding light ON the attractiveness of high-paying remote positions IN today's job market.

```
set @total = (select count(*) from salaries where salary_in_usd > 100000);
set @count = (select count(*) from salaries where salary_in_usd > 100000 and remote_ratio
= 100);
set @percentage = round((select @count) / (select @total) *100,2);
```

### select @percentage

```
5
6 • set @total = (select count(*) from salaries where salary_in_usd > 100000);
7 • set @count = (select count(*) from salaries where salary_in_usd > 100000 and remote_ratio = 100);
8 • set @percentage = round((select @count) / (select @total) *100,2);
9 • select @percentage

| Result Grid | | Filter Rows: | Export: | Wrap Cell Content: | Wrap Cell Content: | A
```

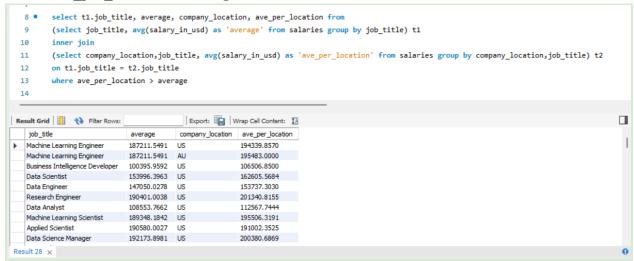
**4.** Imagine you're a data analyst Working for a global recruitment agency. Your Task is to identify the Locations where entry-level average salaries exceed the average salary for that job title IN market for entry level, helping your agency guide candidates towards lucrative opportunities.

select t1.job\_title, average, company\_location, ave\_per\_location from (select job\_title, avg(salary\_in\_usd) as 'average' from salaries group by job\_title) t1 inner join

(select company\_location,job\_title, avg(salary\_in\_usd) as 'ave\_per\_location' from salaries group by company\_location,job\_title) t2

on t1.job\_title = t2.job\_title

where ave\_per\_location > average

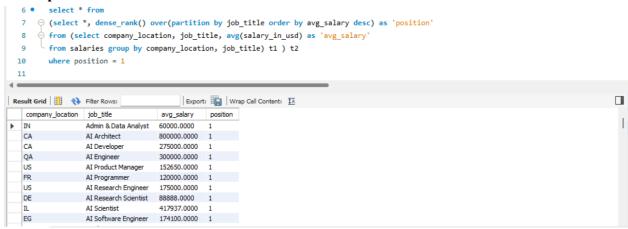


**5.** You've been hired by a big HR Consultancy to look at how much people get paid IN different Countries. Your job is to Find out for each job title which. Country pays the maximum average salary. This helps you to place your candidates IN those countries.

#### select \* from

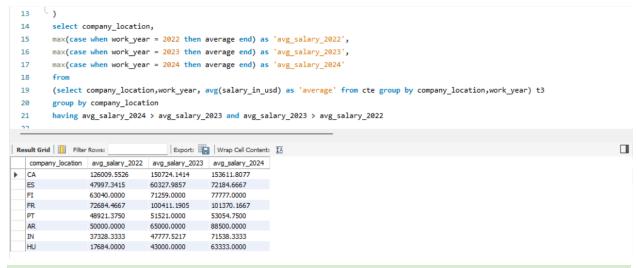
(select \*, dense\_rank() over(partition by job\_title order by avg\_salary desc) as 'position' from (select company\_location, job\_title, avg(salary\_in\_usd) as 'avg\_salary' from salaries group by company\_location, job\_title) t1) t2

#### where position = 1



**6.** AS a data-driven Business consultant, you've been hired by a multinational corporation to analyze salary trends across different company Locations. Your goal is to Pinpoint Locations WHERE the average salary Has consistently Increased over the Past few years (Countries WHERE data is available for 3 years Only(present year and past two years) providing Insights into Locations experiencing Sustained salary growth.

```
with cte as (
      select * from salaries where company location in
      (select company location from
      (select company location, avg(salary in usd) as "avg salary", count(distinct
work year) as 'cnt'
      from salaries where work year >= year(current date()) - 2
      group by company location having cnt = 3) t1)
select company location,
max(case when work year = 2022 then average end) as 'avg salary 2022',
max(case when work year = 2023 then average end) as 'avg salary 2023',
max(case when work year = 2024 then average end) as 'avg salary 2024'
from
(select company location, work year, avg(salary in usd) as 'average' from cte group by
company location, work year) t3
group by company location
having avg salary 2024 > avg salary 2023 and avg salary 2023 > avg salary 2022
```



7. Picture yourself AS a workforce strategist employed by a global HR tech startup. Your Mission is to Determine the percentage of fully remote work for each experience level IN 2021 and compare it WITH the corresponding figures for 2024, Highlighting any significant Increases or decreases IN remote work Adoption over the years.

```
select * from
       select *, ((cnt)/(total)) * 100 as 'remote 2021' from
              (select t1.experience level,total,cnt from
             (select experience level, count(*) as total from salaries where work year =
2021
              group by experience level) t1
             inner join
             (select experience level, count(*) as cnt from salaries where work year =
2021 and remote ratio = 100
             group by experience level) t2
             on t1.experience level = t2.experience level) t
) x inner join
       select *, ((cnt)/(total)) * 100 as 'remote 2024' from
              (select t1.experience level,total,cnt from
             (select experience level, count(*) as total from salaries where work year =
2024
             group by experience level) t1
              inner join
             (select experience level, count(*) as cnt from salaries where work year =
2024 and remote ratio = 100
             group by experience level) t2
```

## on t1.experience\_level = t2.experience\_level) t

) y on x.experience\_level = y.experience\_level

```
select * from
           select *, ((cnt)/(total)) * 100 as 'remote_2021' from
             (select t1.experience_level,total,cnt from
              (select experience_level, count(*) as total from salaries where work_year = 2021
              group by experience_level) t1
10
             inner join
             (select experience_level, count(*) as cnt from salaries where work_year = 2021 and remote_ratio = 100
            group by experience_level) t2
12
             on t1.experience_level = t2.experience_level) t
13
14
       ) x inner join
15 ⊖ (
16
          select *, ((cnt)/(total)) * 100 as 'remote_2024' from
           (select t1.experience_level,total,cnt from
17
              (select experience_level, count(*) as total from salaries where work_year = 2024
             group by experience level) t1
                                   Export: Wrap Cell Content: IA
                                                                                                                               experience_level total cnt remote_2021 experience_level total cnt remote_2024
              75
                   44
                        58.6667
                                   SE
                                               1920 483
                                                          25.1563
        87 45 51.7241 MI 1102 227 20.5989
 MI
  EN
                        47.8261
                                                          22.8346
                   22
                                   EN
                                               381 87
                                       106 35 33.0189
```

**8.** AS a Compensation specialist at a Fortune 500 company, you're tasked WITH analyzing salary trends over time. Your objective is to calculate the average salary increase percentage for each experience level and job title between the years 2023 and 2024, helping the company stay competitive IN the talent market.

```
WITH t AS

(

SELECT experience_level, job_title ,work_year, round(AVG(salary_in_usd),2) AS
'average' FROM salaries WHERE work_year IN (2023,2024) GROUP BY
experience_level, job_title, work_year
) -- step 1
```

# )a WHERE (((AVG\_salary\_2024-AVG\_salary\_2023)/AVG\_salary\_2023)\*100) IS NOT NULL -- STEP 3

