Data Science Salaries 2023 SQL Based Case Study

MySQL

JOEL NADAR AI

Salaries of Different Data Science Fields in the Data Science Domain

1. **What is the max salary of all employees in the dataset?**

```
23      -- What is the max salary of all employees in the dataset? --
24
25 *    SELECT max(salary_in_usd) AS highest_salary
26      FROM job_salaries;
27
28
29
30
```

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

highest_salary
450000

2. **What is the min salary of all employees in the dataset? –**

```
26
27      -- What is the min salary of all employees in the dataset? --
28
29 *    SELECT min(salary_in_usd) AS lowest_salary
30      FROM job_salaries;
31
32
33
34
```

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

lowest_salary
5132

3. **What is the average salary of all employees in the dataset? –**

```
32    -- What is the average salary of all employees in the dataset? --
33
34 *  SELECT avg(salary_in_usd) AS avg_salary
35    FROM job_salaries;
36
37
38
39
```

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

avg_salary
137570.3899

4. **What is the average salary of each experience level?**

```
39    -- What is the avg salary of each experience level? --
40 *  SELECT experience_level, avg(salary_in_usd) AS avg_salary
41    FROM job_salaries
42    GROUP BY experience_level;
43
44
45
46
```

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

experience_level	avg_salary
EN	78546.2844
EX	194930.9298
MI	104525.9391
SE	153051.0715

5. **What is the average remote work ratio of employees?**

```
44    -- What is the average remote work ratio of employees? --
45
46 •  SELECT AVG(remote_ratio) as avg_remote_ratio
47    FROM job_salaries;
48
49
50
51
52
```

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

avg_remote_ratio
46.2716

6. **What is the most common job title in the dataset?**

```
50    -- What is the most common job title in the dataset?--
51 •  SELECT job_title, COUNT(*) as count
52    FROM job_salaries
53    GROUP BY job_title
54    ORDER BY count DESC
55    LIMIT 5;
56
```

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

job_title	count
Data Engineer	1040
Data Scientist	840
Data Analyst	612
Machine Learning Engineer	289
Analytics Engineer	103

7. **What is the total salary in usd paid by each company location?**

```sql
-- What is the total salary in usd paid by each company location?

SELECT company_location, SUM(salary_in_usd) as total_salary
FROM job_salaries
GROUP BY (company_location);
```

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

company_location	total_salary
AE	300000
AL	10000
AM	50000
AR	75000
AS	88053
AT	428129
AU	1120468
BA	120000
BE	307459

8. **What is the average salary of employees who work in "United States" and have "Data Scientist" job title?**

```sql
-- What is the average salary of employees who work in "United States" and have "Data Scientist" job title?

SELECT AVG(salary) as avg_salary
FROM job_salaries
INNER JOIN
(
    SELECT DISTINCT job_title
    FROM job_salaries
    WHERE job_title = 'Data Scientist'
) AS data_scientist
ON job_salaries.job_title = data_scientist.job_title
WHERE employee_residence = 'US';
```

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

avg_salary
159345.8321

9. **What is the total salary paid by each company location and job title?**

```
85      -- What is the total salary paid by each company location and job title
86
87  *   SELECT js.company_location, js.job_title, SUM(js.salary) as total_salary
88      FROM job_salaries js
89      GROUP BY js.company_location, js.job_title;
90
91
```

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

company_location	job_title	total_salary
US	Data Engineer	138583803
US	Data Scientist	109557430
US	Data Analyst	61243700
US	Machine Learning Engineer	38190343
CL	Data Scientist	30400000
IN	Data Scientist	26760000

10. **What is the average salary of employees who work for each type of employment?**

```
78      -- What is the average salary of employees who work for each type of employment?
79
80
81  *   SELECT ds.employment_type, AVG(ds.salary) as avg_salary
82      FROM job_salaries ds
83      GROUP BY ds.employment_type;
84
85
86
87
88
89
90
91
```

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

employment_type	avg_salary
CT	113300.0000
FL	288755.5000
FT	191146.5393
PT	79910.8235