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**DSML** 

Data Scientist Salary Analysis Week 3 Project



#### **Project Summary**

- Data Scientist salary data from Kaggle
- <a href="https://www.kaggle.com/datasets/chopper53/data-scientist-salary-in-2024">https://www.kaggle.com/datasets/chopper53/data-scientist-salary-in-2024</a>
- 2 Tables: Salary, Company
- Cleaned the data on Python
- Analyzed in SQL
- Visualized in Tableau



#### What are median salaries for a Data Scientist for each experience level?



# AVG(s.salary\_in\_usd) AS average\_salary, PERCENTILE\_CONT(0.5) WITHIN GROUP (ORDER BY s.salary\_in\_usd) AS median\_salary, FROM salaries s JOIN companies c ON s.row\_number = c.row\_number GROUP BY s.level ORDER BY AVG(s.salary\_in\_usd) DESC;

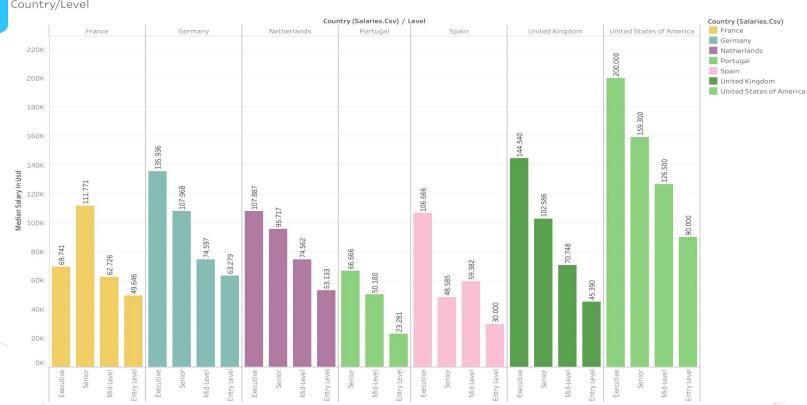
SELECT

s.level,

# **IRON** HACK

## What are the median salaries in different countries for each experience level?

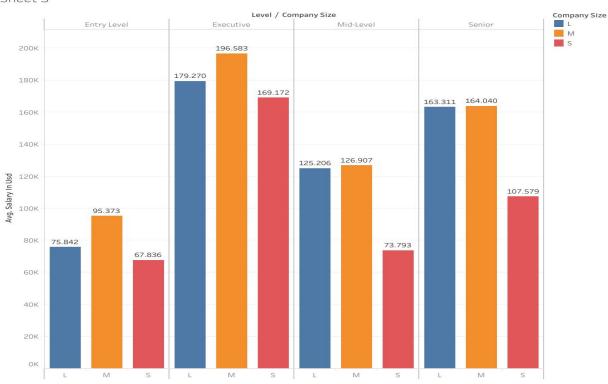


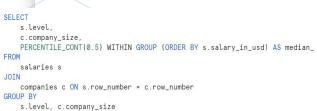


# IRON HACK

#### Are there salary differences in different company sizes for each experience level?



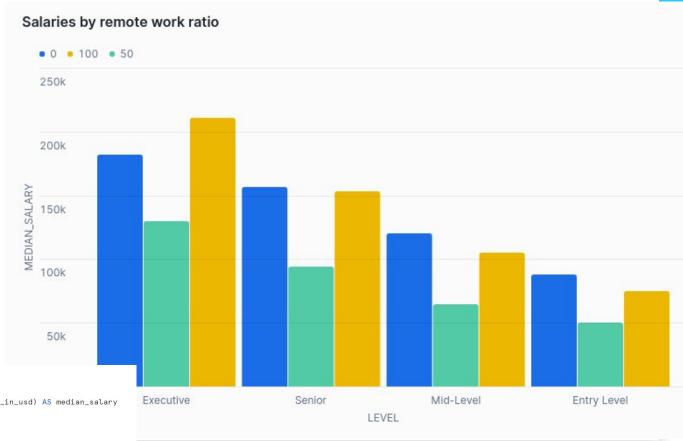




order by company\_size;



#### Does remote work ratio affect salaries in the industry?



#### SELECT

s.level,

c.remote\_ratio,

 $\label{eq:percentile_cont} \mbox{PERCENTILE\_CONT(0.5) WITHIN GROUP (ORDER BY s.salary\_in\_usd) AS median\_salary FROM \\$ 

salaries s

JOIN
 companies c ON s.row\_number = c.row\_number
GROUP BY

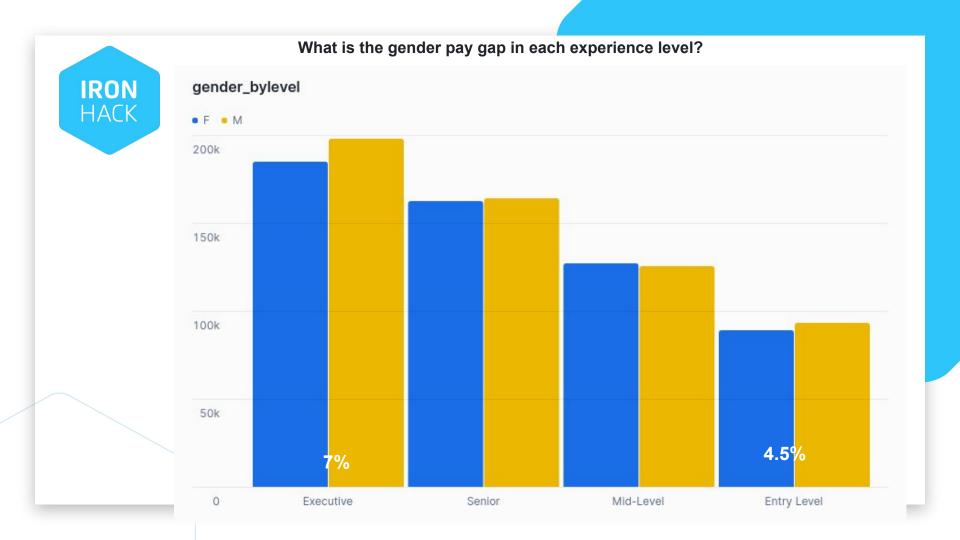
s.level, c.remote\_ratio

order by remote\_ratio desc;



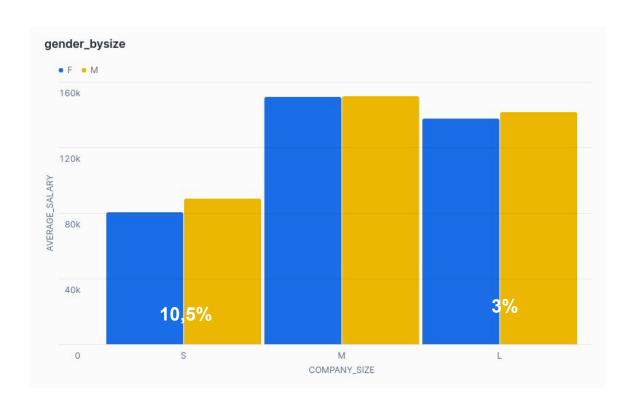


	LEVEL	JOB_TITLE	AVERAGE_SALARY
1	Executive	Principal Data Scientist	416000.000000
2	Executive	Head of Machine Learning	299758.428571
3	Executive	Managing Director Data Science	280000.000000
4	Executive	Machine Learning Engineer	235030.555556
5	Executive	Director of Data Science	230673.285714
6	Senior	Analytics Engineering Manager	399880.000000
7	Senior	Data Science Tech Lead	375000.000000
8	Senior	Deep Learning Engineer	272374.000000
9	Senior	Cloud Data Architect	250000.000000
10	Senior	Al Architect	233631.481481
11	Mid-Level	Al Architect	800000.000000
12	Mid-Level	AWS Data Architect	258000.000000
13	Mid-Level	Machine Learning Scientist	233893.333333
14	Mid-Level	Data Infrastructure Engineer	217288.750000
15	Mid-Level	Director of Data Science	204500.000000
16	Entry Level	Research Scientist	165070.486486
17	Entry Level	Applied Scientist	153442.857143
18	Entry Level	Business Intelligence Lead	150747.500000
19	Entry Level	Machine Learning Operations Engineer	150000.000000
20	Entry Level	Cloud Data Engineer	138588.500000





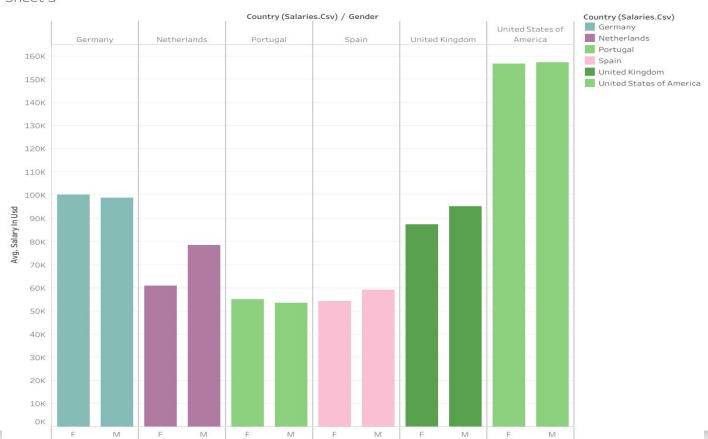
### What is the gender pay gap in each company size?





## Gender pay gap in different countries







#### What are the top countries for remote Data Scientists?

#### Top countries for remote work

