Question 1

Display the highest, lowest, sum, and average salary of all employees. Label the columns Maximum, Minimum, Sum, and Average, respectively. Round your results to the nearest whole number. in sql

Query

SELECT

ROUND(MAX(salary)) AS Maximum,

ROUND(MIN(salary)) AS Minimum,

ROUND(SUM(salary)) AS Sum,

ROUND(AVG(salary)) AS Average

FROM hr.employees;

Output

MAXIMUM MINIMUM SUM AVERAGE 24000 2100 692016 6467 Download CSV						
	MAXIMUM	MINIMUM	SUM	AVERAGE		
Download CSV	24000 2100 692016 6467					

Question 2

Modify the query in Q1 to display the minimum, maximum, sum, and average salary for each job type.

Query

SELECT

job_id,

ROUND(MIN(salary)) AS Minimum,

ROUND(MAX(salary)) AS Maximum,

ROUND(SUM(salary)) AS Sum,

ROUND(AVG(salary)) AS Average

FROM hr.employees

GROUP BY job_id;

Output

JOB ID	MINIMUM	MAXIMUM	SUM	AVERAGE
AD_VP	17000	17000	34000	17000
FI_ACCOUNT	6900	9000	39600	7920
PU_CLERK	2500	3100	13900	2780
SH_CLERK	2500	4200	64300	3215
HR_REP	6500	6500	6500	6500
PU_MAN	11000	11000	11000	11000
AC_MGR	12008	12008	12008	12008
ST_CLERK	2100	3600	55700	2785
AD_ASST	4400	4400	4400	4400
IT_PROG	4200	9000	28800	5760
SA_MAN	10500	14000	61000	12200
AC_ACCOUNT	8300	8300	8300	8300
FI_MGR	12008	12008	12008	12008
ST_MAN	5800	8200	36400	7280
AD_PRES	24000	24000	24000	24000
MK_MAN	13000	13000	13000	13000

HR_REP	6500	6500	6500	6500	
PU_MAN	11000	11000	11000	11000	
AC_MGR	12008	12008	12008	12008	
ST_CLERK 2100 3600 55700 2785					
AD_ASST	4400	4400	4400	4400	
IT_PROG	4200	9000	28800	5760	
SA_MAN	10500	14000	61000	12200	
AC_ACCOUNT	8300	8300	8300	8300	
FI_MGR	12008	12008	12008	12008	
ST_MAN	5800	8200	36400	7280	
AD_PRES 24000 24000 24000 24000					
MK_MAN	13000	13000	13000	13000	
SA_REP	6100	11500	251100	8370	
MK_REP	6000	6000	6000	6000	
PR_REP	10000	10000	10000	10000	
Download CSV					
19 rows selected.					

Question 3

Write a query to display the number of people with the same job.

Query

SELECT

job_id,

COUNT(*) AS employee_count

FROM hr.employees

GROUP BY job_id;

Output

JOB_ID	EMPLOYEE_COUNT	FI_ACCOUNT	5
AC_ACCOUNT	1	FI_MGR	1
AC_MGR	1	HR_REP	1
AD_ASST	1	IT_PROG	5
AD_PRES	1	MK_MAN	1
AD_VP	2	MK_REP	1
FI_ACCOUNT	5	PR_REP	1
FI_MGR	1	PU_CLERK	5
HR_REP	1	PU_MAN	1
IT_PROG	5	SA MAN	5
MK_MAN	1	_	
MK_REP	1	SA_REP	30
PR_REP	1	SH_CLERK	20
PU_CLERK	5	ST_CLERK	20
PU_MAN	1	ST_MAN	5
SA_MAN	5	Download CSV	
SA_REP	30	19 rows select	ed.

Question 4

4Write a query to display each department's name, location, number of employees, and the average salary for all employees in that department. Label the columns Name, Location, Number of People, and Salary, respectively. Round the average salary to two decimal places.

SELECT

```
d.department_name AS "Name",
I.city AS "Location",
COUNT(e.employee_id) AS "Number of People",
```

ROUND(AVG(e.salary), 2) AS "Salary"

FROM

hr.employees e

JOIN

hr.departments d ON e.department_id = d.department_id

JOIN

hr.locations I ON d.location_id = I.location_id

GROUP BY

d.department_name, l.city

ORDER BY

d.department_name;

Output

Name	Location	Number of People	Salary		
Accounting	Seattle	2	10154		
Administration	Seattle	1	4400		
Executive	Seattle	3	19333.33		
Finance	Seattle	6	8601.33		
Human Resources	London	1	6500		
IT	Southlake	5	5760		
Marketing Toronto 2 9500					
Public Relations Munich 1 10000					
Purchasing	Seattle	6	4150		
Sales	0xford	34	8973.53		
Shipping	South San Francisco	45	3475.56		
Download CSV					

Question 5

Display the manager number and the salary of the lowest paid employee for that manager.

Exclude anyone whose manager is not known. Exclude any groups where the minimum

salary is less than \$6,000. Sort the output in descending order of salary.

```
Query

SELECT

e.manager_id AS "Manager Number",

MIN(e.salary) AS "Lowest Salary"

FROM

hr.employees e

WHERE

e.manager_id IS NOT NULL

GROUP BY

e.manager_id

HAVING

MIN(e.salary) >= 6000
```

Output

ORDER BY

Manager Number	Lowest Salary			
102	9000			
205 8300				
145 7000				
146 7000				
108 6900				
149 6200				
147 6200				
148	6100			
201 6000				
Download CSV				
9 rows selected.				

"Lowest Salary" DESC;

Question 6

Create a query that will display the total number of employees and, of that total, the number of employees hired in 2005, 2006, and 2007. Create appropriate column headings.

Query

SELECT

COUNT(*) AS "Total Employees",

SUM(CASE WHEN EXTRACT(YEAR FROM hire_date) = 2005 THEN 1 ELSE 0 END) AS "Hired in 2005",

SUM(CASE WHEN EXTRACT(YEAR FROM hire_date) = 2006 THEN 1 ELSE 0 END) AS "Hired in 2006",

SUM(CASE WHEN EXTRACT(YEAR FROM hire_date) = 2007 THEN 1 ELSE 0 END) AS "Hired in 2007"

FROM

hr.employees;

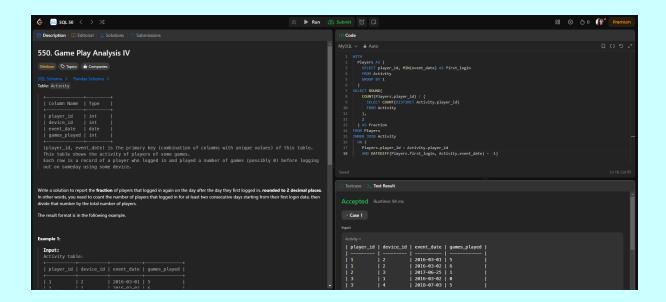
Output

Total Employees	Hired in 2005	Hired in 2006	Hired in 2007	
107	29	24	19	
Download CSV				

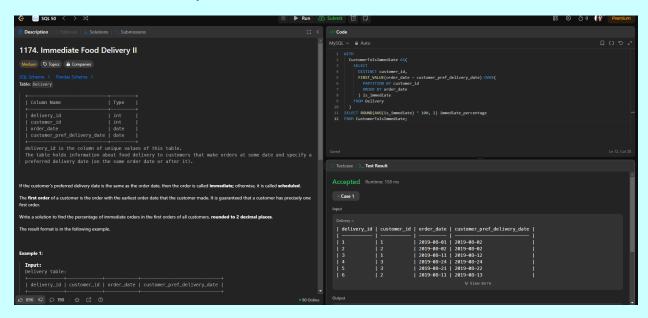
Question 7

Complete the section "Basic Aggregate Functions" of SQL 50 Badge on Leetcode.

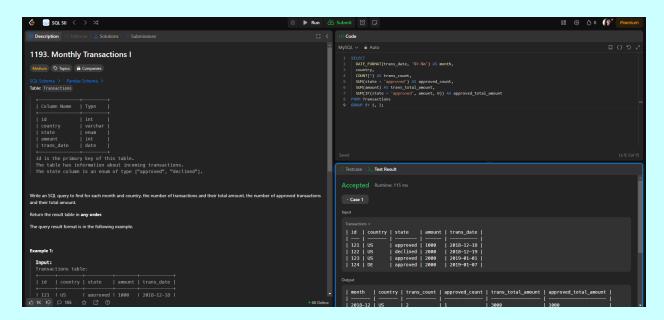
550. Game Play Analysis IV



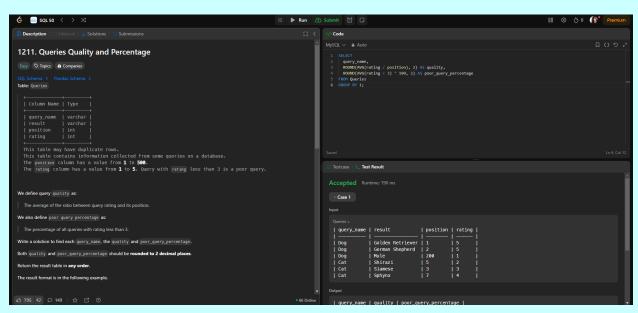
1174. Immediate Food Delivery II



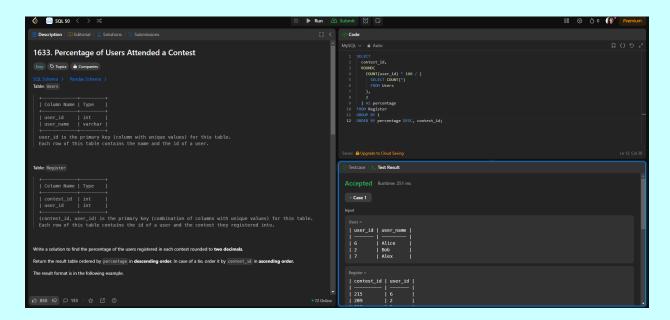
1193. Monthly Transactions I



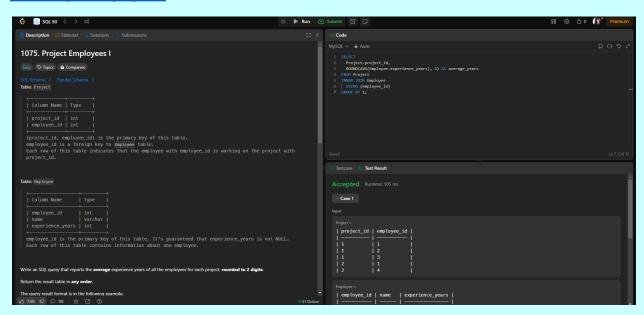
1211. Queries Quality and Percentage



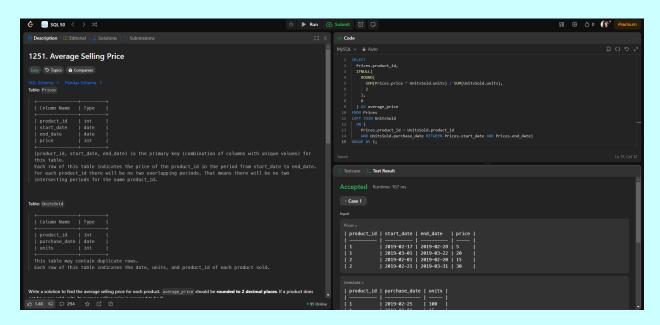
1633. Percentage of Users Attended a Contest



1075. Project Employees I



1251. Average Selling Price



620. Not Boring Movies

