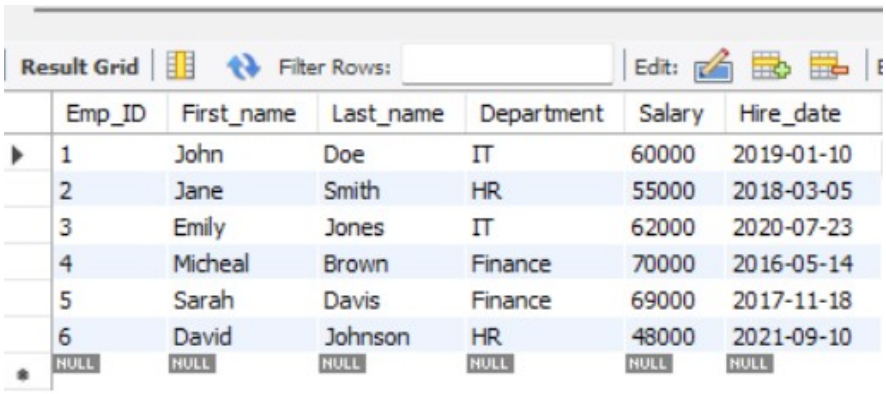
ASSIGNMENT 3

----- SUNEET PAUL SINGH -----

`/* Inserting Values */

```
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("John" , "Doe" , "IT" , 60000.00 , "2019-01-10");
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("Jane" , "Smith" ,"HR" ,  55000.00 , "2018-03-05");
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("Emily" , "Jones" , "IT" , 62000.00 , "2020-07-23");
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("Micheal" , "Brown" , "Finance" , 70000.00 , "2016-05-14");
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("Sarah" , "Davis" , "Finance" , 69000.00 , "2017-11-18");
Insert into Emp_Details (First_name,Last_name,Department,Salary,Hire_date)
Values ("David" , "Johnson" , "HR" , 48000.00 , "2021-09-10");
```

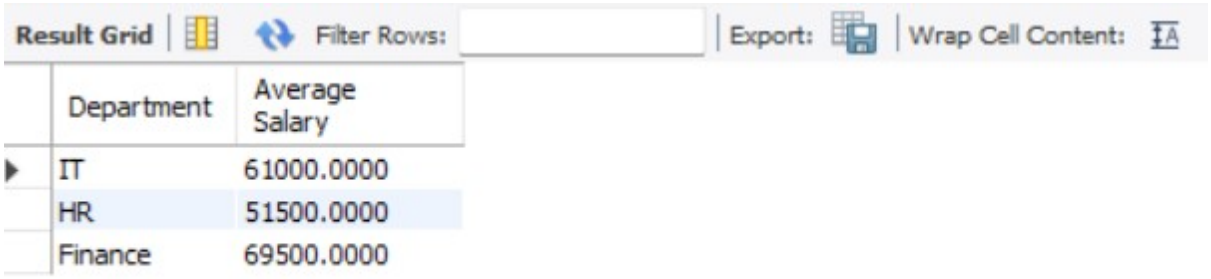
select * from employees ;



Emp_ID	First_name	Last_name	Department	Salary	Hire_date
1	John	Doe	IT	60000	2019-01-10
2	Jane	Smith	HR	55000	2018-03-05
3	Emily	Jones	IT	62000	2020-07-23
4	Micheal	Brown	Finance	70000	2016-05-14
5	Sarah	Davis	Finance	69000	2017-11-18
6	David	Johnson	HR	48000	2021-09-10
NULL	NULL	NULL	NULL	NULL	NULL

/* Q1- Average salary of employees in each department. */

- Select distinct Department, Avg(Salary) AS "Average Salary" from Emp_Details group by Department;

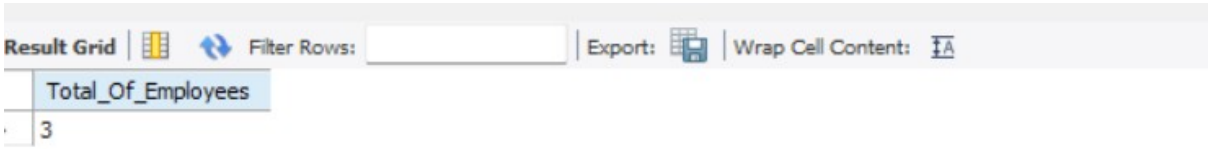


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Department	Average Salary
IT	61000.0000
HR	51500.0000
Finance	69500.0000

/* Q2- Total number of employees hired after 2019. */

- Select Count(*) AS Total_Of_Employees from Emp_details where Hire_date> "2019-01-01";

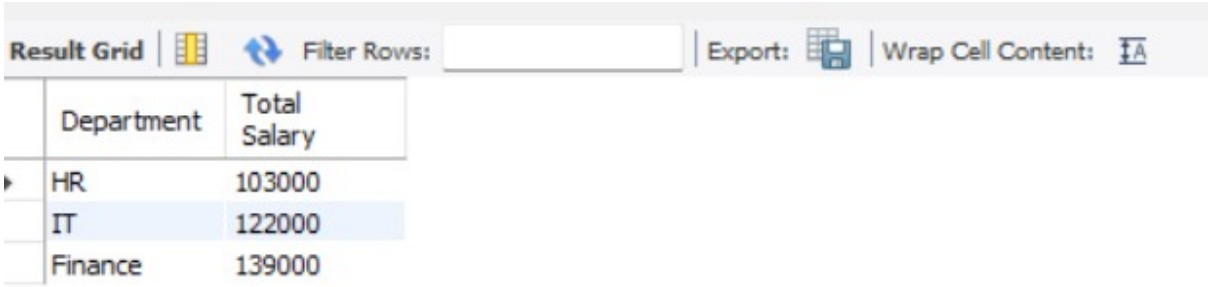


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Total_Of_Employees
3

/* Q3- Departments and the total salary of all employees in each department, ordered by the total salary.*/

- Select Department, sum(Salary) As "Total Salary" from Emp_Details group by Department order by sum(Salary) ;



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

Department	Total Salary
HR	103000
IT	122000
Finance	139000

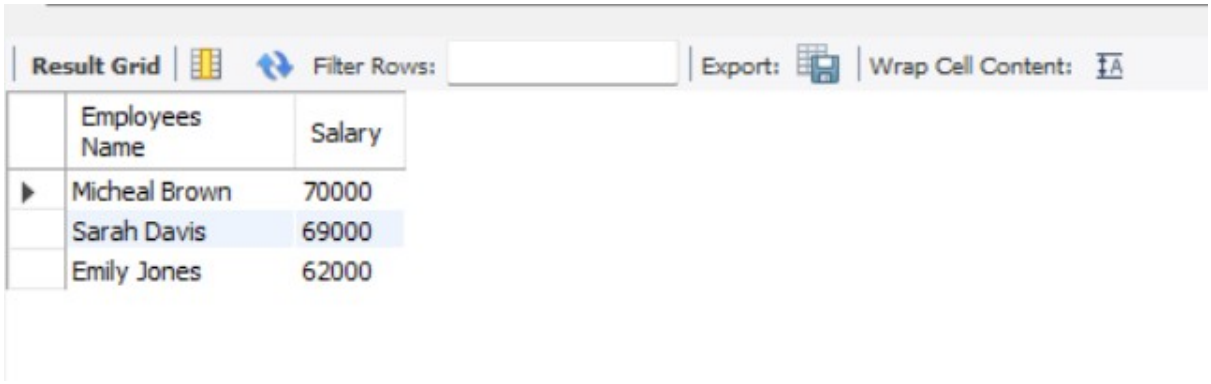
/* Q4- Highest salary in the Finance department. */

- Select Department, max(Salary) from Emp_Details group by Department having Department="Finance";

Department	max(Salary)
Finance	70000

/* Q5- Top 3 highest-paid employees. */

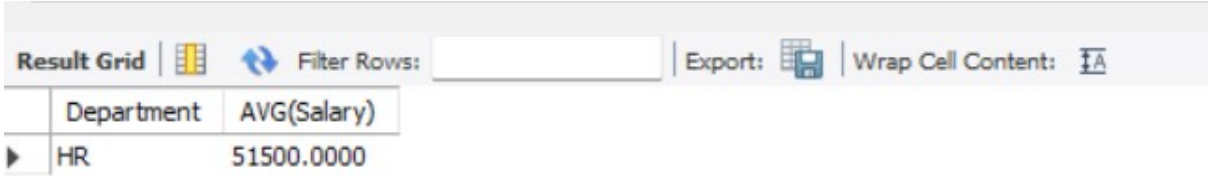
- Select concat(First_name,' ',Last_Name) AS "Employees Name", Salary from Emp_Details order by Salary Desc Limit 3;



Employees Name	Salary
Micheal Brown	70000
Sarah Davis	69000
Emily Jones	62000

/* Q6- Department with the minimum average salary. */

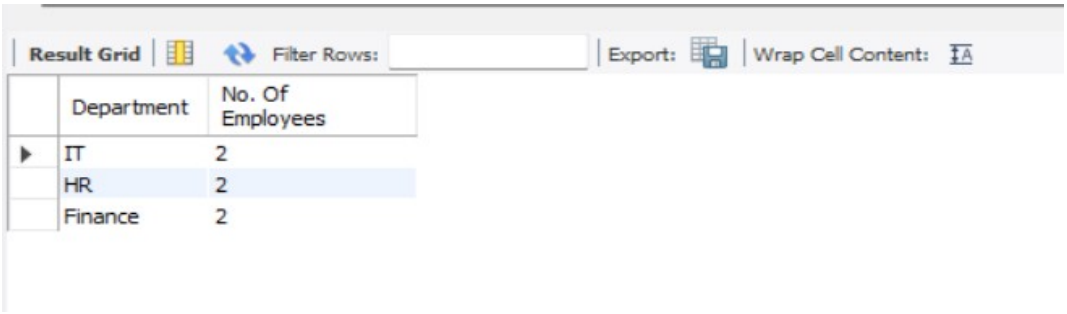
- Select Department, AVG(Salary) from Emp_Details group by Department Order By AVG(Salary) limit 1;



Department	AVG(Salary)
HR	51500.0000

/* Q7- Total number of employees in each department, ordered by the number of employees. */

- Select distinct Department,Count(*) AS "No. Of Employees" From Emp_Details Group By Department Order By COUNT(*);

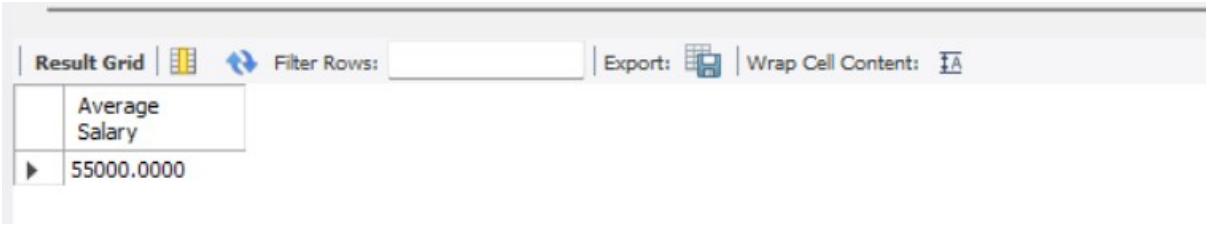


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Department	No. Of Employees
IT	2
HR	2
Finance	2

/* Q8- Average salary of employees who were hired before 2020. */

- Select AVG(Salary) AS "Average Salary" from Emp_Details where Hire_date>"2020-01-01";

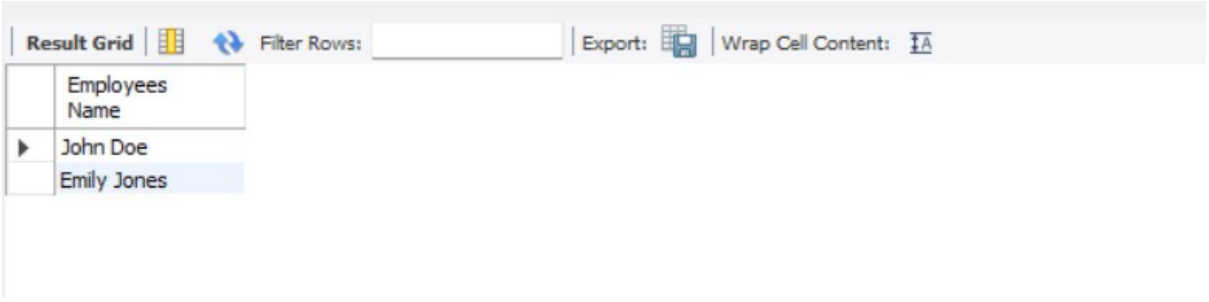


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Average Salary
55000.0000

/* Q9- Names of employees in the IT department ordered by hire date, with the most recently hired employees first. */

- Select concat(First_name,' ',Last_Name) AS "Employees Name" from Emp_Details Where Department="IT" order by Hire_date ASC;



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

Employees Name
John Doe
Emily Jones

/* Q10- The sum of salaries for all employees hired after January 1, 2019, ordered by salary. */

- Select Sum(Salary) AS "Total Salary of Employees" from Emp_Details where Hire_date> "2019-01-01" Order by Salary;

Total Salary of Employees
170000

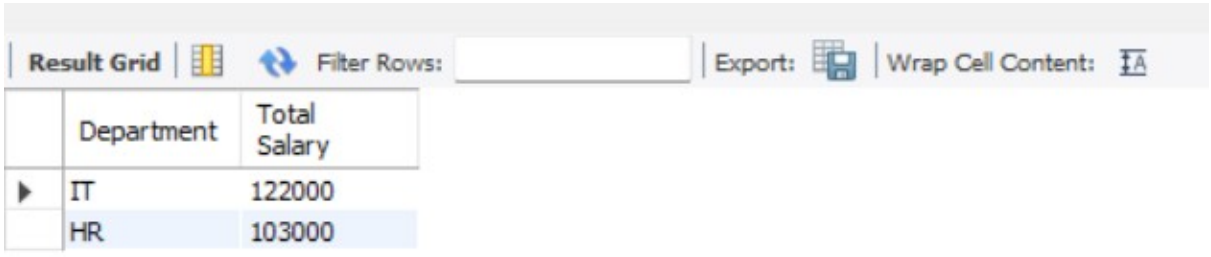
/* Q11- The employee with the lowest salary in the HR department. */

- Select concat(First_name,' ',Last_Name) AS "Employees Name" from Emp_Details where Department="HR" Order by Salary limit 1;

Employees Name
David Johnson

/* Q12- Total salary paid to employees in each department, but limit the result to the top 2 highest paying departments. */

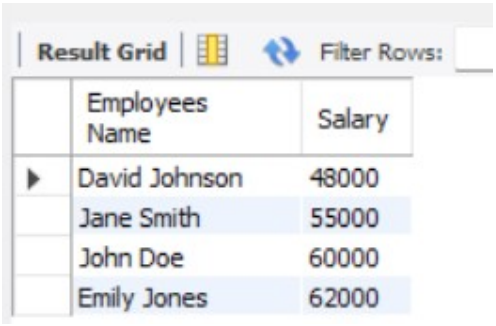
- Select distinct Department, Sum(Salary) As 'Total Salary' from Emp_Details Group by Department Order by Department Desc limit 2;



Department	Total Salary
IT	122000
HR	103000

/* Q13- All employees hired after 2018, ordered by salary, and show only the first 4 employees. */

- Select concat(First_name,' ',Last_Name) AS "Employees Name", Salary from Emp_Details Where Hire_date>"2018-01-01" order by Salary Limit 4;



Result Grid | Filter Rows:

Employees Name	Salary
David Johnson	48000
Jane Smith	55000
John Doe	60000
Emily Jones	62000

/* Q14- The highest salary in the IT department, but limit the results to the top 1 result. */

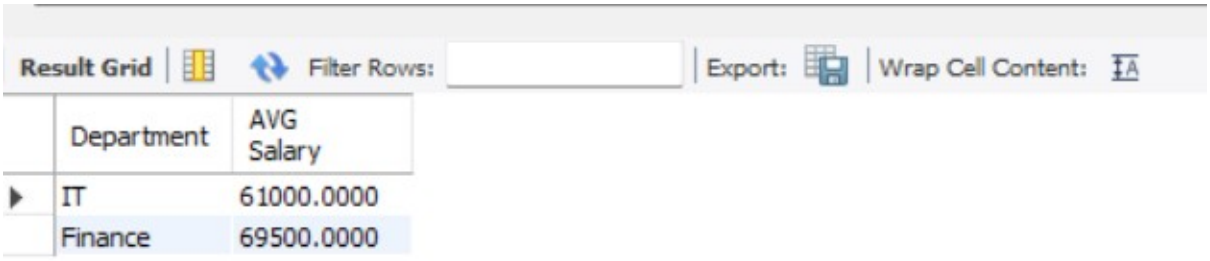
- Select Max(Salary) AS "Highest Salary" from Emp_Details Where Department= "IT" Order By Salary Desc Limit 1;

Result Grid | Filt

Highest Salary
62000

/* Q15- Average salary of employees in each department and list only departments with an average salary greater than $60,000. */

- Select distinct Department, avg(Salary) AS "AVG Salary" from Emp_Details group by Department having avg(Salary)>60000;



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

Department	AVG Salary
IT	61000.0000
Finance	69500.0000