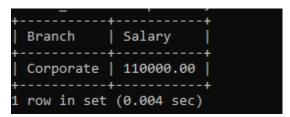
Project

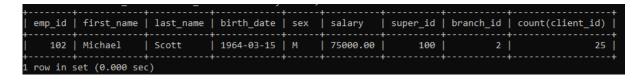
1. Question: Find the maximum salary among female employees in the "Corporate" branch.

Query:- select branch_name 'Branch', max(salary)'Salary' from employees e1 inner join branches b1 ON e1.branch_id = b1.branch_id WHERE sex='F' and branch_name ='Corporate';



2. Question: Retrieve the employee details along with the count of clients they work with, but only for employees with a salary greater than \$50,000.

Query:- select emp_id,first_name, last_name, birth_date,sex, salary, super_id, e1.branch_id, count(client_id) from employees e1 inner join clients c1 on e1.branch_id=c1.branch_id where salary>50000;



Query:- select emp_id,first_name, last_name, birth_date,sex, salary, super_id, e1.branch_id, client_id from employees e1 inner join clients c1 on e1.branch_id=c1.branch_id where salary>50000;

emp_id	first_name	last_name	birth_date	sex	salary	super_id	branch_id	client_id
102	Michael	Scott	1964-03-15	М	75000.00	100	2	400
102	Michael	Scott	1964-03-15	М	75000.00	100	2	401
102	Michael	Scott	1964-03-15	М	75000.00	100	2	404
102	Michael	Scott	1964-03-15	М	75000.00	100	2	406
103	Angela	Martin	1971-06-25	F	63000.00	102	2	400
103	Angela	Martin	1971-06-25	F	63000.00	102	2	401
103	Angela	Martin	1971-06-25	F	63000.00	102	2	404
103	Angela	Martin	1971-06-25	F	63000.00	102	2	406
104	Kelly	Kapoor	1980-02-05	F	55000.00	102	2	400
104	Kelly	Kapoor	1980-02-05	F	55000.00	102	2	401
104	Kelly	Kapoor	1980-02-05	F	55000.00	102	2	404
104	Kelly	Kapoor	1980-02-05	F	55000.00	102	2	406
105	Stanley	Hudson	1958-02-19	M	69000.00	102	2	400
105	Stanley	Hudson	1958-02-19	М	69000.00	102	2	401
105	Stanley	Hudson	1958-02-19	M	69000.00	102	2	404
105	Stanley	Hudson	1958-02-19	M	69000.00	102	2	406
106	Josh	Porter	1969-09-05	M	78000.00	100	3	402
106	Josh	Porter	1969-09-05	M	78000.00	100	3	403
106	Josh	Porter	1969-09-05	M	78000.00	100	3	405
107	Andy	Bernard	1973-07-22	М	65000.00	106	3	402
107	Andy	Bernard	1973-07-22	M	65000.00	106	3	403
107	Andy	Bernard	1973-07-22	М	65000.00	106	3	405
108	Jim	Halpert	1978-10-01	М	71000.00	106	3	402
108	Jim	Halpert	1978-10-01	М	71000.00	106	3	403
108	Jim	Halpert	1978-10-01	М	71000.00	106	3	405

3. Question: Find the average salary of employees in the "Scranton" branch who are male.

Query:- select avg(salary) from employees e1 inner join branches b1 on e1.branch_id=b1.branch_id where sex='M' and branch_name='Scranton';

```
+-----+
| avg(salary) |
+-----+
| 72000.0000000 |
+-----+
1 row in set (0.000 sec)
```

4. Retrieve the count of clients for each branch where the count is greater than 5

select count(*) from clients group by branch_id having count(*)> 5;

```
MariaDB [projxt]> select count(*) from clients group by branch_id having count(*)> 5; 
Empty set (0.000 sec)
```

5. Question: Find the total sales made by each employee in the "Corporate" branch who has made sales exceeding \$100,000.

Query:- select total_sales from sales s inner join branches b inner join employees e on e.emp_id=s.emp_id=b.mgr_id group by branch_name having branch_name='corporate';

```
MariaDB [project]> select total_sales from sales s inner join branches b inn er join employees e on e.emp_id=s.emp_id=b.mgr_id group by branch_name havin g branch_name='corporate';
Empty set (0.001 sec)
```

6. Question: Retrieve the total sales for each client in the "Corporate" branch.

Query:- select client_id , total_sales from sales s inner join br anches b on mgr id=emp id where branch name='Corporate' group by client id;

```
MariaDB [project]> select client_id , total_sales from sales s inner join br anches b on mgr_id=emp_id where branch_name='Corporate' group by client_id; Empty set (0.001 sec)
```

7. Question: Retrieve details of female employees with a salary above \$70,000.

Query:- select * from employees where sex='F' and salary>70000;

8. Question: Find the clients whose names start with 'T'.

Query:-

select client_name from clients where client_name like 'T%';

9. Question: Get the names of employees sorted by their salary in descending order.

Query:- select first_name,last_name from employees order by salary desc;

```
MariaDB [project]> select first_name,last_name from employees order by salary desc;
 first_name | last_name |
 David
               Wallace
 Jan
               Levinson
 Josh
               Porter
 Michael
               Scott
 Jim
               Halpert
 Stanley
               Hudson
 Andy
               Bernard
 Angela
               Martin
 Kelly
               Kapoor
 rows in set (0.002 sec)
```

10. Question: Retrieve a list of clients sorted alphabetically by their names.

Query:- select client_name from clients order by client_name;

11. Question: Find the total sales for each client, ordered by the highest sales first.

Query:- SELECT client_id,total_sales FROM sales GROUP BY client_id ORDER BY total_sales DESC;

12. Question: Retrieve the employee details whose last names end with 'son'.

Query:- select * from employees where last_name like '%son';

```
MariaDB [project]> select * from employees where last_name like '%son';
                                     birth_date | sex
                                                                       super_id |
                                                                                   branch_id
 emp_id |
           first_name |
                        last_name |
                                                          salary
                                                          110000.00
     101
           Jan
                        Levinson
                                     1961-05-11
                                                   F
                                                                            100
                                                                                           1
           Stanley
                                     1958-02-19
                                                                                           2
     105
                        Hudson
                                                            69000.00
                                                                            102
 rows in set (0.001 sec)
```

13. Question: Get a list of supplier names that contain the word 'Paper' anywhere in their name.

Query:- select supplier_name from suppliers where supplier_name like '%paper%';

14. Question: Retrieve the employee names and salaries, ordered by salary in ascending order.

Query:- select first_name , last_name, salary from employees order by salary;

```
MariaDB [project]> select first_name , last_name, salary from employees order by salary;
                             salary
 first_name
             | last_name
 Kelly
                Kapoor
                              55000.00
 Angeĺa
                Martin
                              63000.00
 Andy
Stanley
                              65000.00
                Bernard
                              69000.00
                Hudson
                              71000.00
75000.00
 Jim
                Halpert
 Michael
                Scott
                             78000.00
110000.00
 Josh
                Porter
 Jan
                Levinson
 David
                Wallace
                             250000.00
 rows in set (0.001 sec)
```

15. Question: Get a list of branch names in alphabetical order.

Query:- select branch name from branches order by branch name;

16. Question: Get a list of supplier names and their supply types, ordered by supply types.

Query:- select supplier_name ,supply_type from suppliers order by supply_type;

```
MariaDB [project]> select supplier_name ,supply_type from suppliers order by supply_type;
  supplier_name
                        supply_type
 J.T. Forms & Labels
                         Custom Forms
 Stamford Lables
                         Custom Forms
  Hammer Mill
                         Paper
  Patriot Paper
                         Paper
 Hammer Mill
Uni-ball
                         Paper
                         Writing Utensils
  Uni-ball
                         Writing Utensils
  rows in set (0.001 sec)
```

17. Question: Find the average salary for each gender (male and female).

Query:- select avg(salary) from employees;

```
MariaDB [project]> select avg(salary) from employees;
+-----+
| avg(salary) |
+-----+
| 92888.888889 |
+-----+
1 row in set (0.001 sec)
```

18. Question: Retrieve the number of clients for each branch.

Query:- select branch_id,count(client_id) from clients group by branch_id;se

```
MariaDB [project]> select branch_id,count(client_id) from clients group by branch_id;
+------+
| branch_id | count(client_id) |
+------+
| 2 | 4 |
| 3 | 3 |
+------+
2 rows in set (0.001 sec)
```

19. Question: Find the maximum total sales for each client.

Query:- select client_id,max(total_sales) from sales group by client_id;

```
MariaDB [project]> select client_id,max(total_sales) from sales group by client_id;
 client_id | max(total_sales)
                      55000.00
       400
                     267000.00
       401
                      22500.00
       402
       403
                      12000.00
       404
                      33000.00
        405
                      26000.00
        406
                     130000.00
 rows in set (0.001 sec)
```

20. Question: Get a list of branch names and the total number of employees in each branch.

Query:- select branch_name , count(emp_id) 'No of Employees' from branches b inner join employees e on emp_id =mgr_id group by emp_id;

21. Question: Retrieve the number of clients each employee works with.

Query:- select first_name ,count(client_id)'No of Clients' from clients c inner join employees e on c.branch_id=e.branch_id group by emp_id;

```
MariaDB [project] > select first_name ,count(client_id)'No of Clients' from c lients c inner join employees e on c.branch_id=e.branch_id group by emp_id;
  first_name
                   | No of Clients
                                       4
  Michael
                                       4
  Angela
  Kelly
                                       4
                                       4
  Stanley
                                       3
  Josh
                                       3
  Andy
                                       3
  Jim
  rows in set (0.001 sec)
```

22. Question: Find the average birth year for employees in each branch.

Query:- select branch_id ,avg(year(birth_date)) from employees group by branch_id;