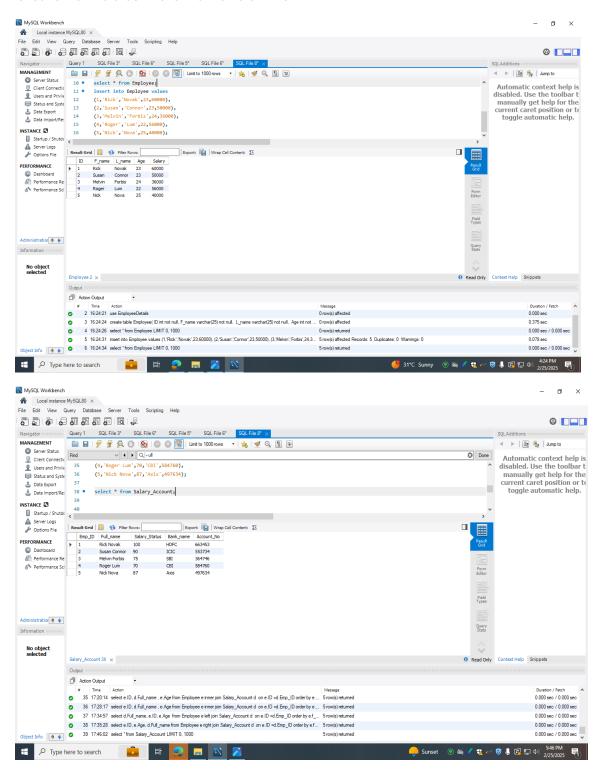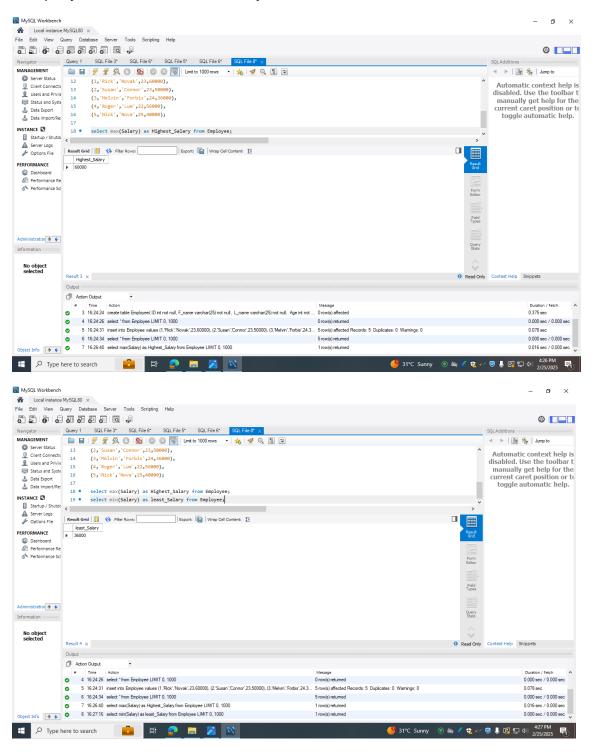# Create new tables more than one or two
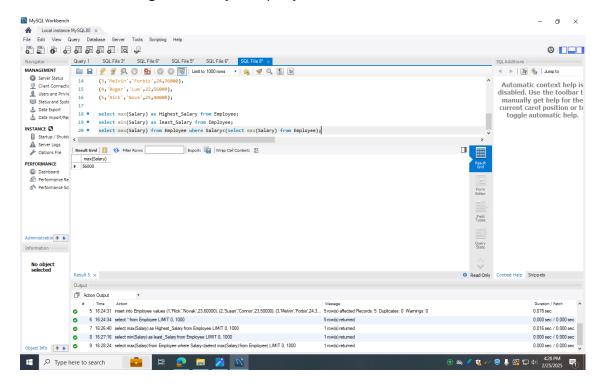
Subquery to find max and min salary

Find the Second highest Salary subquery or limit

Write a query for implementing all the joins with order by or group by

MySQL Workbench — Local instance MySQL80

SQL File 8*

```
41 •  select e.ID, d.Full_name, e.Age from Employee e inner join Salary_Account d
42     on e.ID =d.Emp_ID order by e.f_name;
43
44 •  select d.Full_name, e.ID, e.Age from Employee e left join Salary_Account d
45     on e.ID =d.Emp_ID order by e.f_name;
46
```

Result Grid

Full_name	ID	Age
Melvin Forbis	3	24
Nick Nova	5	25
Rick Novak	1	23
Roger Lum	4	22
Susan Connor	2	23

Result 28

Action Output

#	Time	Action	Message	Duration / Fetch
33	17:18:57	select e.Age, e.Age, d.Full_name from Employee e right join Salary_Account d on e.ID =d.Emp_ID order by e.f...	5 row(s) returned	0.000 sec / 0.000 sec
34	17:19:32	select d.Full_name, e.ID, e.Age from Employee e left join Salary_Account d on e.ID =d.Emp_ID order by e.f_...	5 row(s) returned	0.000 sec / 0.000 sec
35	17:20:14	select e.ID, d.Full_name , e.Age from Employee e inner join Salary_Account d on e.ID =d.Emp_ID order by e...	5 row(s) returned	0.000 sec / 0.000 sec
36	17:28:17	select e.ID, d.Full_name , e.Age from Employee e inner join Salary_Account d on e.ID =d.Emp_ID order by e...	5 row(s) returned	0.000 sec / 0.000 sec
37	17:34:57	select d.Full_name, e.ID, e.Age from Employee e left join Salary_Account d on e.ID =d.Emp_ID order by e.f_...	5 row(s) returned	0.000 sec / 0.000 sec

30°C Mostly sunny   5:34 PM 2/25/2025

MySQL Workbench — Local instance MySQL80

SQL File 8*

```
44 •  select d.Full_name, e.ID, e.Age from Employee e left join Salary_Account d
45     on e.ID =d.Emp_ID order by e.f_name;
46
47 •  select e.ID, e.Age, d.Full_name from Employee e right join Salary_Account d
48     on e.ID =d.Emp_ID order by e.f_name;
49
```

Result Grid

ID	Age	Full_name
3	24	Melvin Forbis
5	25	Nick Nova
1	23	Rick Novak
4	22	Roger Lum
2	23	Susan Connor

Result 29

Action Output

#	Time	Action	Message	Duration / Fetch
34	17:19:32	select d.Full_name , e.ID, e.Age from Employee e left join Salary_Account d on e.ID =d.Emp_ID order by e.f_...	5 row(s) returned	0.000 sec / 0.000 sec
35	17:20:14	select e.ID, d.Full_name , e.Age from Employee e inner join Salary_Account d on e.ID =d.Emp_ID order by e...	5 row(s) returned	0.000 sec / 0.000 sec
36	17:28:17	select e.ID, d.Full_name , e.Age from Employee e inner join Salary_Account d on e.ID =d.Emp_ID order by e...	5 row(s) returned	0.000 sec / 0.000 sec
37	17:34:57	select d.Full_name, e.ID, e.Age from Employee e left join Salary_Account d on e.ID =d.Emp_ID order by e.f...	5 row(s) returned	0.000 sec / 0.000 sec
38	17:35:28	select e.ID, e.Age, d.Full_name from Employee e right join Salary_Account d on e.ID =d.Emp_ID order by e.f...	5 row(s) returned	0.000 sec / 0.000 sec

30°C Mostly sunny   5:35 PM 2/25/2025

Write a Query to implement all aggregate functions

Write a query using all string functions

Screenshot 1 — SQL File 8*

```sql
56   select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
57   select substring(F_name,1,4)as Short_name from Employee;
58   select upper(Full_name)as Upper_case from Salary_Account;
59   select lower(Full_name) from Lower_case from Salary_Account;
60   select trim(Full_Name) as trimname from Salary_Account;
61
```

Result Grid

trimname
Rick Novak
Susan Connor
Melvin Forbis
Roger Lum
Nick Nova

Action Output

#	Time	Action	Message	Duration / Fetch
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
27	17:06:47	select trim(Full_Name) as trimname from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Screenshot 2 — SQL File 8*

```sql
51   select sum(Salary) as Total_Emp_Salary from Employee;
52   select avg(Salary) as Average_Emp_Salary from Employee;
53   select count(ID) as Number_of_Emp from Employee;
54
55   /*String functions*/
56   select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
57   select substring(F_name,1,4)as Short_name from Employee;
```

Result Grid

Short_name
Rick
Susa
Melv
Roge
Nick

Action Output

#	Time	Action	Message	Duration / Fetch
20	16:58:35	select avg(Salary) as Average_Emp_Salary from Employee LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
21	17:00:01	select count(ID) as Number_of_Emp from Employee LIMIT 0, 1000	1 row(s) returned	0.031 sec / 0.000 sec
22	17:02:22	select concat(F_name,' ',L_name)as Employee_Full_Name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Navigator
Query 1   SQL File 3*   SQL File 6*   SQL File 5*   SQL File 6*   SQL File 8*

Limit to 1000 rows

```sql
52   select avg(Salary) as Average_Emp_Salary from Employee;
53   select count(ID) as Number_of_Emp from Employee;
54
55   /*String functions*/
56   select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
57   select substring(F_name,1,4)as Short_name from Employee;
58   select upper(Full_name)as Upper_case from Salary_Account;
```

Result Grid   Filter Rows: Export: Wrap Cell Content:

Upper_case
RICK NOVAK
SUSAN CONNOR
MELVIN FORBIS
ROGER LUM
NICK NOVA

Result 16

Output
Action Output

#	Time	Action	Message	Duration / Fetch
21	17:00:01	select count(ID) as Number_of_Emp from Employee LIMIT 0, 1000	1 row(s) returned	0.031 sec / 0.000 sec
22	17:02:22	select concat(F_name,' ',L_name)as Employee_Full_Name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

5:04 PM
2/25/2025

Navigator
Query 1   SQL File 3*   SQL File 6*   SQL File 5*   SQL File 6*   SQL File 8*

Limit to 1000 rows

```sql
50   /*Aggregateb Functions*/
51   select sum(Salary) as Total_Emp_Salary from Employee;
52   select avg(Salary) as Average_Emp_Salary from Employee;
53   select count(ID) as Number_of_Emp from Employee;
54
55   /*String functions*/
56   select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
```

Result Grid   Filter Rows: Export: Wrap Cell Content:

Lower_case
rick novak
susan connor
melvin forbis
roger lum
nick nova

Result 17

Output
Action Output

#	Time	Action	Message	Duration / Fetch
22	17:02:22	select concat(F_name,' ',L_name)as Employee_Full_Name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Breaking news

5:05 PM
2/25/2025

Screenshot 1 (SQL File 8, 5:05 PM)

```
54
55    /*String functions*/
56 •  select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
57 •  select substring(F_name,1,4)as Short_name from Employee;
58 •  select upper(Full_name)as Upper_case from Salary_Account;
59 •  select lower(Full_name)as Lower_case from Salary_Account;
60
```

Result Grid:

Lower_case
rick novak
susan connor
melvin forbis
roger lum
nick nova

Result 17

Action Output

#	Time	Action	Message	Duration / Fetch
22	17:02:22	select concat(F_name,'',L_name)as Employee_Full_Name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Screenshot 2 (SQL File 8, 5:06 PM)

```
56 •  select concat(F_name,' ',L_name)as Employee_Full_Name from Employee;
57 •  select substring(F_name,1,4)as Short_name from Employee;
58 •  select upper(Full_name)as Upper_case from Salary_Account;
59 •  select lower(Full_name)as Lower_case from Salary_Account;
60 •  select trim(Full_Name) as trimname from Salary_Account;
61
```

Result Grid:

trimname
Rick Novak
Susan Connor
Melvin Forbis
Roger Lum
Nick Nova

Result 18

Action Output

#	Time	Action	Message	Duration / Fetch
23	17:03:20	select substring(F_name,0,3)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
27	17:06:47	select trim(Full_Name) as trimname from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

Screenshot 1 - MySQL Workbench

SQL File 8*

```
57  select substring(F_name,1,4)as Short_name from Employee;
58  select upper(Full_name)as Upper_case from Salary_Account;
59  select lower(Full_name)as Lower_case from Salary_Account;
60  select trim(Full_Name) as trimname from Salary_Account;
61  select replace(L_name, 'Connor', 'John')as Change_name from Employee;
```

Find: Q |-ull   Done

Result Grid

Change_name
Novak
John
Forbis
Lum
Nova

Result 19

Action Output

#	Time	Action	Message	Duration / Fetch
24	17:03:34	select substring(F_name,1,4)as Short_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
27	17:06:47	select trim(Full_Name) as trimname from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
28	17:07:56	select replace(L_name, 'Connor', 'John')as Change_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

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Screenshot 2 - MySQL Workbench

SQL File 8*

```
58  select upper(Full_name)as Upper_case from Salary_Account;
59  select lower(Full_name)as Lower_case from Salary_Account;
60  select trim(Full_Name) as trimname from Salary_Account;
61  select replace(L_name, 'Connor', 'John')as Change_name from Employee;
62  select instr(Full_name, 'a')as indexs from Salary_Account;
63
```

Find: Q |-ull   Done

Result Grid

indexs
9
4
0
0
9

Result 20

Action Output

#	Time	Action	Message	Duration / Fetch
25	17:04:55	select upper(Full_name)as Upper_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
26	17:05:23	select lower(Full_name)as Lower_case from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
27	17:06:47	select trim(Full_Name) as trimname from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
28	17:07:56	select replace(L_name, 'Connor', 'John')as Change_name from Employee LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
29	17:09:02	select instr(Full_name, 'a')as indexs from Salary_Account LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

5:09 PM 2/25/2025