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Display total number of records in each table

```
MySQL 8.0 Command Line Client

mysql> use hr_db;
Database changed
mysql> show tables;
+-----+
| Tables_in_hr_db |
+-----+
| countries        |
| departments      |
| emp_details_view |
| employees        |
| job_history       |
| jobs             |
| locations         |
| regions          |
+-----+
8 rows in set (0.00 sec)

mysql> select count(*) from countries;
+-----+
| count(*) |
+-----+
|         25 |
+-----+
1 row in set (0.00 sec)

mysql> select count(*) from departments;
+-----+
| count(*) |
+-----+
|         27 |
+-----+
1 row in set (0.00 sec)

mysql> select count(*) from emp_details_view;
+-----+
| count(*) |
+-----+
|        106 |
+-----+
1 row in set (0.00 sec)

mysql> select count(*) from employees;
+-----+
| count(*) |
+-----+
|        107 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(*) from job_history;
```

```
+-----+  
| count(*) |
```

```
+-----+  
|      10 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select count(*) from jobs;
```

```
+-----+  
| count(*) |
```

```
+-----+  
|      19 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select count(*) from locations;
```

```
+-----+  
| count(*) |
```

```
+-----+  
|      23 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select count(*) from regions;
```

```
+-----+  
| count(*) |
```

```
+-----+  
|        4 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

Display the number of employees in each department.

```
mysql> select department_name,count(employee_id) as totalemployee from emp_details_view group by department_name order by department_name;
```

department_name	totalemployee
Accounting	2
Administration	1
Executive	3
Finance	6
Human Resources	1
IT	5
Marketing	2
Public Relations	1
Purchasing	6
Sales	34
Shipping	45

```
11 rows in set (0.00 sec)
```

How many employees work under each job title?

```
mysql> select job_title,count(employee_id) as totalemployee from emp_details_view group by job_title order by job_title;
```

job_title	totalemployee
Accountant	5
Accounting Manager	1
Administration Assistant	1
Administration Vice President	2
Finance Manager	1
Human Resources Representative	1
Marketing Manager	1
Marketing Representative	1
President	1
Programmer	5
Public Accountant	1
Public Relations Representative	1
Purchasing Clerk	5
Purchasing Manager	1
Sales Manager	5
Sales Representative	29
Shipping Clerk	20
Stock Clerk	20
Stock Manager	5

```
19 rows in set (0.00 sec)
```

Display employee's names along with their job title.

```
mysql> select first_name,last_name,job_title from emp_details_view;
```

first_name	last_name	job_title
Alexander	Hunold	Programmer
Bruce	Ernst	Programmer
David	Austin	Programmer
Valli	Pataballa	Programmer
Diana	Lorentz	Programmer
Matthew	Weiss	Stock Manager
Adam	Fripp	Stock Manager
Payam	Kaufling	Stock Manager
Shanta	Vollman	Stock Manager
Kevin	Mourgos	Stock Manager
Julia	Nayer	Stock Clerk
Irene	Mikkilineni	Stock Clerk
James	Landry	Stock Clerk
Steven	Markle	Stock Clerk
Laura	Bissot	Stock Clerk
Mozhe	Atkinson	Stock Clerk
James	Marlow	Stock Clerk
TJ	Olson	Stock Clerk
Jason	Mallin	Stock Clerk
Michael	Rogers	Stock Clerk
Ki	Gee	Stock Clerk
Hazel	Philtanker	Stock Clerk
Renske	Ladwig	Stock Clerk
Stephen	Stiles	Stock Clerk
John	Seo	Stock Clerk
Joshua	Patel	Stock Clerk
Trenna	Rajs	Stock Clerk
Curtis	Davies	Stock Clerk
Randall	Matos	Stock Clerk
Peter	Vargas	Stock Clerk

How many departments are in every country?

```
mysql> select country_name,count(department_id) as totaldepartments from emp_details_view group by country_name order by country_name;
```

country_name	totaldepartments
Canada	2
Germany	1
United Kingdom	35
United States of America	68

4 rows in set (0.00 sec)

Display the name of the employee along with the manager's name.

```
mysql> select E.first_name EmpName,M.first_name MngrName from employees M join employees E on M.employee_id=E.manager_id order by M.first_name;
```

EmpName	MngrName
Alexis	Adam
Laura	Adam
Nandita	Adam
Anthony	Adam
Julia	Adam
TJ	Adam
James	Adam
Mozhe	Adam
Mattea	Alberto
Sundar	Alberto
Amit	Alberto
Danielle	Alberto
David	Alberto
Clara	Alberto
Bruce	Alexander
David	Alexander
Valli	Alexander
Diana	Alexander
Alexander	Den
Shelli	Den
Sigal	Den
Guy	Den
Karen	Den

Display name of employees along with their total experience.

```
mysql> select first_name,last_name, YEAR(NOW())- YEAR(hire_date) as Experience_in_years from employees;
```

first_name	last_name	Experience_in_years
Steven	King	34
Neena	Kochhar	32
Lex	De Haan	28
Alexander	Hunold	31
Bruce	Ernst	30
David	Austin	24
Valli	Pataballa	23
Diana	Lorentz	22
Nancy	Greenberg	27
Daniel	Faviet	27
John	Chen	24
Ismael	Sciarra	24
Jose Manuel	Urman	23

Display previous job title, latest job title, and name of employees

```
10 rows in set (0.00 sec)

mysql> create view current_job as select e.first_name,e.last_name,j.job_title as current_job from employees e join jobs j on j.job_id=e.job_id order by e.first_name;
Query OK, 0 rows affected (0.03 sec)

mysql> create view past_job as select e.first_name,e.last_name,j.job_title as past_job from employees e join job_history h on e.employee_id=h.employee_id join jobs j on j.job_id=h.job_id order by e.first_name;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from current_job;
+-----+-----+-----+
| first_name | last_name | current_job |
+-----+-----+-----+
| Neena      | Kochhar   | Administration Vice President |
| Jennifer   | Whalen    | Administration Assistant       |
| Neena      | Kochhar   | Administration Vice President |
| Jennifer   | Whalen    | Administration Assistant       |
| Lex        | De Haan   | Administration Vice President |
| Michael    | Hartstein | Marketing Manager              |
| Jonathon   | Taylor    | Sales Representative            |
| Jonathon   | Taylor    | Sales Representative            |
| Den        | Raphaely  | Purchasing Manager             |
| Payam      | Kaufling  | Stock Manager                  |
+-----+-----+-----+

mysql> select c.first_name,c.last_name,c.current_job,p.past_job from past_job p join current_job c where p.first_name=c.first_name AND p.last_name=c.last_name;
+-----+-----+-----+-----+
| first_name | last_name | current_job | past_job |
+-----+-----+-----+-----+
| Neena      | Kochhar   | Administration Vice President | Public Accountant |
| Jennifer   | Whalen    | Administration Assistant       | Public Accountant |
| Neena      | Kochhar   | Administration Vice President | Accounting Manager |
| Jennifer   | Whalen    | Administration Assistant       | Administration Assistant |
| Lex        | De Haan   | Administration Vice President | Programmer         |
| Michael    | Hartstein | Marketing Manager              | Marketing Representative |
| Jonathon   | Taylor    | Sales Representative            | Sales Manager      |
| Jonathon   | Taylor    | Sales Representative            | Sales Representative |
| Den        | Raphaely  | Purchasing Manager             | Stock Clerk        |
| Payam      | Kaufling  | Stock Manager                  | Stock Clerk        |
+-----+-----+-----+-----+

10 rows in set (0.00 sec)
```

Display employee's name, last job title of employees who are working in department 60.

```
mysql> select e.first_name,e.last_name, j.job_title as 'Previous job title' from employees e join job_history jh on e.employee_id = jh.employee_id join jobs j on j.job_id = jh.job_id where e.department_id =60;
Empty set (0.00 sec)

mysql>
```

Name the employees who earn the highest salary according to the job.

```
mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Accountant"AND salary=(select max(salary) from emp_details_view where job_title="Accountant");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Daniel     | Faviet    | 9000.00 | Accountant |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Accounting Manager"AND salary=(select max(salary) from emp_details_view where job_title="Accounting Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Shelley    | Higgins   | 12000.00 | Accounting Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Administration Assistant"AND salary=(select max(salary) from emp_details_view where job_title="Administration Assistant");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Jennifer   | Whalen    | 4400.00 | Administration Assistant |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Administration Vice President"AND salary=(select max(salary) from emp_details_view where job_title="Administration Vice President");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Neena      | Kochhar   | 17000.00 | Administration Vice President |
| Lex        | De Haan   | 17000.00 | Administration Vice President |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Finance Manager"AND salary=(select max(salary) from emp_details_view where job_title="Finance Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Nancy      | Greenberg | 12000.00 | Finance Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Human Resources Representative"AND salary=(select max(salary) from emp_details_view where job_title="Human Resources Representative");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Susan     | Mavris   | 6500.00 | Human Resources Representative |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Marketing Manager"AND salary=(select max(salary) from emp_details_view where job_title="Marketing Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Michael    | Hartstein | 13000.00 | Marketing Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Marketing Representative"AND salary=(select max(salary) from emp_details_view where job_title="Marketing Representative");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Pat        | Fay       | 6000.00 | Marketing Representative |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="President"AND salary=(select max(salary) from emp_details_view where job_title="President");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Steven     | King      | 24000.00 | President |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Programmer"AND salary=(select max(salary) from emp_details_view where job_title="Programmer");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Alexander  | Hunold    | 9000.00 | Programmer |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Public Accountant"AND salary=(select max(salary) from emp_details_view where job_title="Public Accountant");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| William    | Gietz     | 8300.00 | Public Accountant |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Public Relations Representative"AND salary=(select max(salary) from emp_details_view where job_title="Public Relations Representative");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Hermann    | Baer      | 10000.00 | Public Relations Representative |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Purchasing Clerk"AND salary=(select max(salary) from emp_details_view where job_title="Purchasing Clerk");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Alexander  | Khoo      | 3100.00 | Purchasing Clerk |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Purchasing Manager"AND salary=(select max(salary) from emp_details_view where job_title="Purchasing Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Den        | Raphaely  | 11000.00 | Purchasing Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Sales Manager"AND salary=(select max(salary) from emp_details_view where job_title="Sales Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| John       | Russell   | 14000.00 | Sales Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Sales Representative"AND salary=(select max(salary) from emp_details_view where job_title="Sales Representative");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Lisa       | Ozmer     | 11500.00 | Sales Representative |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Shipping Clerk"AND salary=(select max(salary) from emp_details_view where job_title="Shipping Clerk");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Nandita    | Sarchand  | 4200.00 | Shipping Clerk |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Stock Clerk"AND salary=(select max(salary) from emp_details_view where job_title="Stock Clerk");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Renske     | Ludwig    | 3600.00 | Stock Clerk |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select first_name,last_name,salary,job_title from emp_details_view where job_title="Stock Manager"AND salary=(select max(salary) from emp_details_view where job_title="Stock Manager");
+-----+-----+-----+-----+
| first_name | last_name | salary | job_title |
+-----+-----+-----+-----+
| Adam       | Fripp     | 8200.00 | Stock Manager |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

```