

## SQL Join Statements, Group By Statements

### Start MySQL Shell

```
MySQL Shell
MySQL [JS] > \connect root@localhost:3306
Creating a session to 'root@localhost:3306'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 11
Server version: 8.0.13 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.

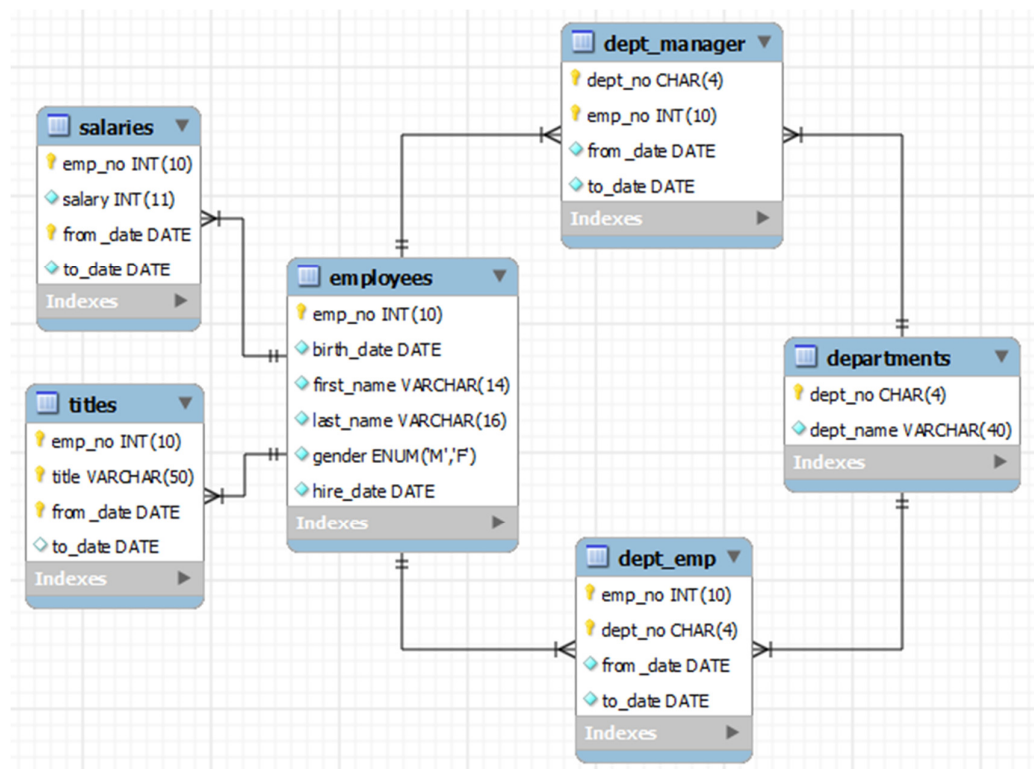
MySQL [localhost:3306 ssl JS] > \sql
Switching to SQL mode... Commands end with ;

MySQL [localhost:3306 ssl SQL] > show databases;
+-----+
| Database |
+-----+
| employees |
| information_schema |
| mysql |
| newstar |
| performance_schema |
| sakila |
| sys |
| world |
+-----+
8 rows in set (0.0007 sec)

MySQL [localhost:3306 ssl SQL] > use employees;
Default schema set to 'employees'.
Fetching table and column names from 'employees' for auto-completion... Press ^C to stop.

MySQL [localhost:3306 ssl employees SQL] > show tables;
+-----+
| Tables_in_employees |
+-----+
| current_dept_emp |
| departments |
| dept_emp |
| dept_emp_latest_date |
| dept_manager |
| employees |
+-----+
```

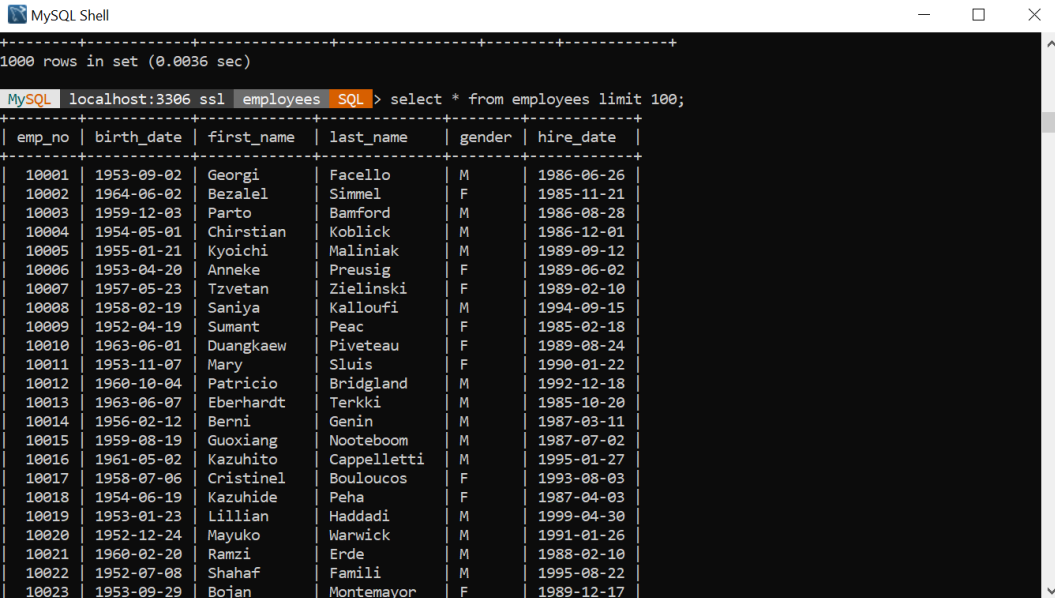
The Employees database contain our Employees data. The Employees database schema or EER diagram is as follows:



To show the top 100 content in Employees table:

Select \* from employees

limit 100;



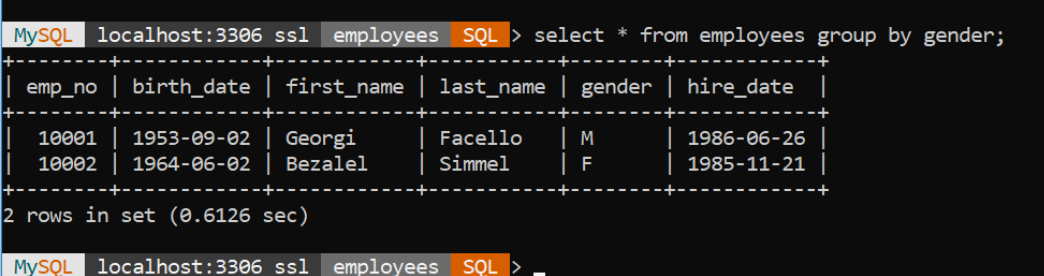
```
MySQL localhost:3306 ssl employees SQL > select * from employees limit 100;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
10003	1959-12-03	Parto	Bamford	M	1986-08-28
10004	1954-05-01	Chirstian	Koblick	M	1986-12-01
10005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
10006	1953-04-20	Anneke	Preusig	F	1989-06-02
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
10009	1952-04-19	Sumant	Peac	F	1985-02-18
10010	1963-06-01	Duangkaew	Piveteau	F	1989-08-24
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10012	1960-10-04	Patricio	Bridgland	M	1992-12-18
10013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
10014	1956-02-12	Berni	Genin	M	1987-03-11
10015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
10016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	1987-04-03
10019	1953-01-23	Lillian	Haddadi	M	1999-04-30
10020	1952-12-24	Mayuko	Warwick	M	1991-01-26
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10023	1953-09-29	Bojan	Montemayor	F	1989-12-17

To show the number of groups in the gender variable:

Select \* from employees

group by gender;



```
MySQL localhost:3306 ssl employees SQL > select * from employees group by gender;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21

2 rows in set (0.6126 sec)

```
MySQL localhost:3306 ssl employees SQL >
```

It shows that there are two groups in gender, F and M. The rest of the variables are the first occurrence when gender = M or F.

To get the frequency tables, we can write:

Select gender, count(gender)

from employees

group by gender;

```
MySQL localhost:3306 ssl employees SQL > select gender, count(gender) from employees group by gender;
+-----+-----+
| gender | count(gender) |
+-----+-----+
| M      | 179973        |
| F      | 120051        |
+-----+-----+
2 rows in set (0.4866 sec)
```

There are 179973 of M and 120051 of F.

To join employees table and the salaries table and get the top 100 rows:

Select \* from employees

inner join salaries on employees.emp\_no = salaries.emp\_no

limit 100;

```
MySQL Shell
MySQL localhost:3306 ssl employees SQL > select * from employees inner join salaries on employees.emp_no = salaries.emp_no limit 100;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date | emp_no | salary | from_date | to_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 60117 | 1986-06-26 | 1987-06-26 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 62102 | 1987-06-26 | 1988-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66074 | 1988-06-25 | 1989-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66596 | 1989-06-25 | 1990-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66961 | 1990-06-25 | 1991-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 71046 | 1991-06-25 | 1992-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 74333 | 1992-06-24 | 1993-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 75286 | 1993-06-24 | 1994-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 75994 | 1994-06-24 | 1995-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 76884 | 1995-06-24 | 1996-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 80013 | 1996-06-23 | 1997-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 81025 | 1997-06-23 | 1998-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 84097 | 1998-06-23 | 1999-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 84917 | 1999-06-23 | 2000-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 85112 | 2000-06-22 | 2001-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 85097 | 2001-06-22 | 2002-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 88958 | 2002-06-22 | 9999-01-01 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 65828 | 1996-08-03 | 1997-08-03 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 65909 | 1997-08-03 | 1998-08-03 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 67534 | 1998-08-03 | 1999-08-03 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 69366 | 1999-08-03 | 2000-08-02 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 71963 | 2000-08-02 | 2001-08-02 |
| 10002 | 1964-06-02 | Bezalel | Simmel | F | 1985-11-21 | 10002 | 72527 | 2001-08-02 | 9999-01-01 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 40006 | 1995-12-03 | 1996-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43616 | 1996-12-02 | 1997-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43466 | 1997-12-02 | 1998-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43636 | 1998-12-02 | 1999-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43478 | 1999-12-02 | 2000-12-01 |
```

We can also write using:

Select \* from employees, salaries

where employees.emp\_no = salaries.emp\_no

limit 100;

```
MySQL Shell
Jayson | Mandell | 64945.0000
Rami | Waschkowski | 57067.8333
Sreekrishna | Servieres | 48209.7500
Valter | Sullins | 83901.7143
Hironobu | Haraldson | 64536.7333
-----
100 rows in set (11.1773 sec)

MySQL localhost:3306 ssl employees SQL> select * from employees, salaries where employees.emp_no = salaries.emp_no limit 100;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date | emp_no | salary | from_date | to_date |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 60117 | 1986-06-26 | 1987-06-26 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 62102 | 1987-06-26 | 1988-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66074 | 1988-06-25 | 1989-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66596 | 1989-06-25 | 1990-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 66961 | 1990-06-25 | 1991-06-25 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 71046 | 1991-06-25 | 1992-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 74333 | 1992-06-24 | 1993-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 75286 | 1993-06-24 | 1994-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 75994 | 1994-06-24 | 1995-06-24 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 76884 | 1995-06-24 | 1996-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 80013 | 1996-06-23 | 1997-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 81025 | 1997-06-23 | 1998-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 81097 | 1998-06-23 | 1999-06-23 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 84917 | 1999-06-23 | 2000-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 85112 | 2000-06-22 | 2001-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 85097 | 2001-06-22 | 2002-06-22 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 | 10001 | 88958 | 2002-06-22 | 9999-01-01 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 65828 | 1996-08-03 | 1997-08-03 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 65909 | 1997-08-03 | 1998-08-03 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 67534 | 1998-08-03 | 1999-08-03 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 69366 | 1999-08-03 | 2000-08-02 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 71963 | 2000-08-02 | 2001-08-02 |
| 10002 | 1964-06-02 | Bezael | Simmel | F | 1985-11-21 | 10002 | 72527 | 2001-08-02 | 9999-01-01 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 40806 | 1995-12-03 | 1996-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43616 | 1996-12-02 | 1997-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43466 | 1997-12-02 | 1998-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43636 | 1998-12-02 | 1999-12-02 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43478 | 1999-12-02 | 2000-12-01 |
| 10003 | 1959-12-03 | Parto | Bamford | M | 1986-08-28 | 10003 | 43699 | 2000-12-01 | 2001-12-01 |
-----
100 rows in set (11.1773 sec)
```

To get the frequency table after joining the two tables:

Select gender, count(gender) from employees, salaries  
 where employees.emp\_no = salaries.emp\_no  
 group by gender;

```
MySQL localhost:3306 ssl employees SQL> select gender, count(gender) from employees, salaries where employees.emp_no = salaries.emp_no group by gender;
+-----+-----+
| gender | count(gender) |
+-----+-----+
| M | 1706321 |
| F | 1137726 |
+-----+-----+
2 rows in set (6.1834 sec)

MySQL localhost:3306 ssl employees SQL> .
```

We can also get the frequency table with salary after joining the tables:

Sum of salary

Select gender, count(gender), sum(salary) from employees, salaries  
 where employee.emp\_no = salaries.emp\_no  
 group by gender;

Average salary

Select gender, count(gender), avg(salary) from employees, salaries

where employee.emp\_no = salaries.emp\_no

group by gender;

```
MySQL localhost:3306 ssl employees SQL > select gender, count(gender), sum(salary) from employees, salaries where employees.emp_no = salaries.emp_no group by gender;
```

gender	count(gender)	sum(salary)
M	1706321	108928421890
F	1137726	72552335529

2 rows in set (7.4411 sec)

```
MySQL localhost:3306 ssl employees SQL > select gender, count(gender), avg(salary) from employees, salaries where employees.emp_no = salaries.emp_no group by gender;
```

gender	count(gender)	avg(salary)
M	1706321	63838.1769
F	1137726	63769.6032

2 rows in set (7.3572 sec)

```
MySQL localhost:3306 ssl employees SQL >
```

When we join the two tables:

```
MySQL Shell
```

emp_no	birth_date	first_name	last_name	gender	hire_date	emp_no	salary	from_date	to_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	60117	1986-06-26	1987-06-26
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	62102	1987-06-26	1988-06-25
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	66074	1988-06-25	1989-06-25
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	66596	1989-06-25	1990-06-25
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	66961	1990-06-25	1991-06-25
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	71046	1991-06-25	1992-06-24
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	74333	1992-06-24	1993-06-24
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	75286	1993-06-24	1994-06-24
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	75994	1994-06-24	1995-06-24
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	76884	1995-06-24	1996-06-23
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	80013	1996-06-23	1997-06-23
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	81025	1997-06-23	1998-06-23
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	81097	1998-06-23	1999-06-23
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	84917	1999-06-23	2000-06-22
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	85112	2000-06-22	2001-06-22
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	85097	2001-06-22	2002-06-22
10001	1953-09-02	Georgi	Facello	M	1986-06-26	10001	88958	2002-06-22	9999-01-01
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	65828	1996-08-03	1997-08-03
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	65909	1997-08-03	1998-08-03
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	67534	1998-08-03	1999-08-03
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	69366	1999-08-03	2000-08-02
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	71963	2000-08-02	2001-08-02
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21	10002	72527	2001-08-02	9999-01-01
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	40006	1996-12-03	1996-12-02
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43616	1996-12-02	1997-12-02
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43466	1997-12-02	1998-12-02
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43636	1998-12-02	1999-12-02
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43478	1999-12-02	2000-12-01
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43699	2000-12-01	2001-12-01
10003	1959-12-03	Parto	Bamford	M	1986-08-28	10003	43311	2001-12-01	9999-01-01
10004	1954-05-01	Christian	Koblick	M	1986-12-01	10004	40054	1986-12-01	1987-12-01
10004	1954-05-01	Christian	Koblick	M	1986-12-01	10004	42283	1987-12-01	1988-11-30
10004	1954-05-01	Christian	Koblick	M	1986-12-01	10004	42542	1988-11-30	1989-11-30

We can see that Georgi Facello has many salaries over time. We may want to find the average salary of Georgi Facello and the first 100 employees:

Select first\_name, last\_name, gender, avg(salary) from employees, salaries  
 where employees.emp\_no = salaries.emp\_no  
 group by first\_name, last\_name, gender  
 limit 100;

first\_name, last\_name, gender is a group.

```

MySQL Shell
10009 1952-04-19 Sumant Peac F 1985-02-18 10009 74612 1992-02-17 1993-02-16
10009 1952-04-19 Sumant Peac F 1985-02-18 10009 76518 1993-02-16 1994-02-16
10009 1952-04-19 Sumant Peac F 1985-02-18 10009 78335 1994-02-16 1995-02-16
10009 1952-04-19 Sumant Peac F 1985-02-18 10009 80944 1995-02-16 1996-02-16
10009 1952-04-19 Sumant Peac F 1985-02-18 10009 82507 1996-02-16 1997-02-15
100 rows in set (0.0046 sec)

MySQL localhost:3306 ssl employees SQL > Select first_name, last_name, gender, avg(salary) from employees, salaries where employees.emp_no = salaries.emp_no group by first_name, last_name, gender limit 100;
+-----+-----+-----+-----+
| first_name | last_name | gender | avg(salary) |
+-----+-----+-----+-----+
| Georgi     | Facello   | M      | 72999.2632   |
| Bezalel    | Simmel    | F      | 68854.5000   |
| Parto      | Bamford   | M      | 43030.2857   |
| Christian  | Koblick   | M      | 56512.2500   |
| Kyoichi    | Maliniak  | M      | 87275.7692   |
| Anneke     | Preusig   | F      | 58314.9157   |
| Tzvetan    | Zielinski | F      | 78826.7143   |
| Saniya     | Kalloufi  | M      | 49307.6667   |
| Sumant     | Peac      | F      | 78284.5556   |
| Duangkaew | Piveteau  | F      | 76723.0000   |
| Mary       | Sluis     | F      | 49782.0000   |
| Patricio   | Bridgland | M      | 46902.8000   |
| Eberhardt  | Terkki    | M      | 52431.5882   |
| Berni      | Genin     | M      | 52990.3333   |
| Guoxiang   | Nootboom  | M      | 40000.0000   |
| Kazuhito   | Cappelletti | M      | 74995.4000   |
| Cristinel  | Bouloucos | F      | 87064.7000   |
| Kazuhide   | Peha      | F      | 68640.0625   |
| Lillian    | Haddadi   | M      | 47007.2500   |
| Mayuko     | Warwick   | M      | 43278.2000   |
| Ramzi      | Erde      | M      | 68649.5333   |
| Shahaf     | Famili    | M      | 48427.6667   |
| Bojan      | Montemayor | F      | 49438.3333   |
| Suzette    | Pettay    | F      | 98572.4000   |
| Prasadram  | Heyers    | M      | 51958.6364   |
| Yongqiao   | Berztiss  | M      | 58252.8750   |
| Divier     | Reistad   | F      | 43319.2500   |
| Domenick   | Tempesti  | M      | 54141.5714   |
+-----+-----+-----+-----+
  
```

We can join three tables (first 100 rows) using

Select \* from employees, salaries, titles  
 where employees.emp\_no = salaries.emp\_no  
 and  
 employees.emp\_no = titles.emp\_no  
 limit 100;





To be more specific, we can add in the table names:

Select employees.emp\_no, employees.first\_name, employees.last\_name, employees.gender,  
salaries.salary, titles.title

from employees, salaries, titles

where employees.emp\_no = salaries.emp\_no

and

employees.emp\_no = titles.emp\_no

limit 100;

```
MySQL Shell
MySQL localhost:3306 ssl employees SQL > Select employees.emp_no, employees.first_name, employees.last_name, employees.gender, salaries.salary, titles.title
-> from employees, salaries, titles
-> where employees.emp_no = salaries.emp_no
-> and
-> employees.emp_no = titles.emp_no
-> limit 100;
```

emp_no	first_name	last_name	gender	salary	title
10001	Georgi	Facello	M	60117	Senior Engineer
10001	Georgi	Facello	M	62102	Senior Engineer
10001	Georgi	Facello	M	66074	Senior Engineer
10001	Georgi	Facello	M	66596	Senior Engineer
10001	Georgi	Facello	M	66961	Senior Engineer
10001	Georgi	Facello	M	71046	Senior Engineer
10001	Georgi	Facello	M	74333	Senior Engineer
10001	Georgi	Facello	M	75286	Senior Engineer
10001	Georgi	Facello	M	75994	Senior Engineer
10001	Georgi	Facello	M	76884	Senior Engineer
10001	Georgi	Facello	M	80013	Senior Engineer
10001	Georgi	Facello	M	81025	Senior Engineer
10001	Georgi	Facello	M	81097	Senior Engineer
10001	Georgi	Facello	M	84917	Senior Engineer
10001	Georgi	Facello	M	85112	Senior Engineer
10001	Georgi	Facello	M	85897	Senior Engineer
10001	Georgi	Facello	M	88958	Senior Engineer
10002	Berael	Simmel	F	65828	Staff
10002	Berael	Simmel	F	65909	Staff
10002	Berael	Simmel	F	67534	Staff
10002	Berael	Simmel	F	69366	Staff
10002	Berael	Simmel	F	71963	Staff
10002	Berael	Simmel	F	72527	Staff
10003	Parto	Bamford	M	40006	Senior Engineer
10003	Parto	Bamford	M	43616	Senior Engineer
10003	Parto	Bamford	M	43466	Senior Engineer
10003	Parto	Bamford	M	43636	Senior Engineer
10003	Parto	Bamford	M	43478	Senior Engineer
10003	Parto	Bamford	M	43699	Senior Engineer
10003	Parto	Bamford	M	43311	Senior Engineer
10004	Christian	Koblick	M	40054	Engineer