use practice;

Database changed

mysql> select \*

-> from employee;

+--------+------------+-----------+------------+------+---------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+---------+----------+-----------+

| 100 | David | Wallace | 1967-11-17 | M | 250000 | NULL | 1 |

| 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | 1 |

| 102 | Michael | Scott | 1964-03-15 | M | 75000 | 100 | 2 |

| 103 | Angela | Martin | 1971-06-25 | F | 63000 | 102 | 2 |

| 104 | Kelly | Kapoor | 1980-02-05 | F | 55000 | 102 | 2 |

| 105 | Stanley | Hudson | 1958-02-19 | M | 69000 | 102 | 2 |

| 106 | Jost | Porter | 1969-09-05 | M | 78000 | 100 | 3 |

| 107 | Andy | Bernad | 1969-09-05 | M | 65000 | 106 | 3 |

| 108 | Jim | Halpert | 1978-10-01 | M | 71000 | 106 | 3 |

| 109 | Oscar | Martinez | 1968-02-19 | M | 69000 | 106 | 3 |

| 110 | Kevin | Malone | 1978-02-19 | M | 69000 | 106 | 3 |

+--------+------------+-----------+------------+------+---------+----------+-----------+

11 rows in set (0.01 sec)

mysql> select \*

-> from employee

-> where branch\_id = 2;

+--------+------------+-----------+------------+------+--------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+--------+----------+-----------+

| 102 | Michael | Scott | 1964-03-15 | M | 75000 | 100 | 2 |

| 103 | Angela | Martin | 1971-06-25 | F | 63000 | 102 | 2 |

| 104 | Kelly | Kapoor | 1980-02-05 | F | 55000 | 102 | 2 |

| 105 | Stanley | Hudson | 1958-02-19 | M | 69000 | 102 | 2 |

+--------+------------+-----------+------------+------+--------+----------+-----------+

4 rows in set (0.01 sec)

mysql> select emp\_id, first\_name, last\_name, salary

-> from employee

-> where sex = 'F';

+--------+------------+-----------+---------+

| emp\_id | first\_name | last\_name | salary |

+--------+------------+-----------+---------+

| 101 | Jan | Levinson | 1100000 |

| 103 | Angela | Martin | 63000 |

| 104 | Kelly | Kapoor | 55000 |

+--------+------------+-----------+---------+

3 rows in set (0.00 sec)

mysql> select \*

-> from employee

-> where birth\_date between '1950-01-01' and '1970-01-01';

+--------+------------+-----------+------------+------+---------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+---------+----------+-----------+

| 100 | David | Wallace | 1967-11-17 | M | 250000 | NULL | 1 |

| 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | 1 |

| 102 | Michael | Scott | 1964-03-15 | M | 75000 | 100 | 2 |

| 105 | Stanley | Hudson | 1958-02-19 | M | 69000 | 102 | 2 |

| 106 | Jost | Porter | 1969-09-05 | M | 78000 | 100 | 3 |

| 107 | Andy | Bernad | 1969-09-05 | M | 65000 | 106 | 3 |

| 109 | Oscar | Martinez | 1968-02-19 | M | 69000 | 106 | 3 |

+--------+------------+-----------+------------+------+---------+----------+-----------+

7 rows in set (0.00 sec)

mysql> select \*

-> from employee

-> where first\_name like 'A%';

+--------+------------+-----------+------------+------+--------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+--------+----------+-----------+

| 103 | Angela | Martin | 1971-06-25 | F | 63000 | 102 | 2 |

| 107 | Andy | Bernad | 1969-09-05 | M | 65000 | 106 | 3 |

+--------+------------+-----------+------------+------+--------+----------+-----------+

2 rows in set (0.01 sec)

mysql> select \*

-> from employee

-> where first\_name like 'A%' or first\_name like 'J%' and salary >80000;

+--------+------------+-----------+------------+------+---------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+---------+----------+-----------+

| 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | 1 |

| 103 | Angela | Martin | 1971-06-25 | F | 63000 | 102 | 2 |

| 107 | Andy | Bernad | 1969-09-05 | M | 65000 | 106 | 3 |

+--------+------------+-----------+------------+------+---------+----------+-----------+

3 rows in set (0.00 sec)

mysql> select avg(salary)

-> ;

ERROR 1054 (42S22): Unknown column 'salary' in 'field list'

mysql> select avg(salary) as AvgSalary

-> from employee;

+-------------+

| AvgSalary |

+-------------+

| 178545.4545 |

+-------------+

1 row in set (0.00 sec)

mysql> select first\_name, length(first\_name) as Length

-> from employee;

+------------+--------+

| first\_name | Length |

+------------+--------+

| David | 5 |

| Jan | 3 |

| Michael | 7 |

| Angela | 6 |

| Kelly | 5 |

| Stanley | 7 |

| Jost | 4 |

| Andy | 4 |

| Jim | 3 |

| Oscar | 5 |

| Kevin | 5 |

+------------+--------+

11 rows in set (0.00 sec)

mysql> select emp\_id, first\_name, salary + 30000 as NewSalary

-> from employee

-> where sex = 'M';

+--------+------------+-----------+

| emp\_id | first\_name | NewSalary |

+--------+------------+-----------+

| 100 | David | 280000 |

| 102 | Michael | 105000 |

| 105 | Stanley | 99000 |

| 106 | Jost | 108000 |

| 107 | Andy | 95000 |

| 108 | Jim | 101000 |

| 109 | Oscar | 99000 |

| 110 | Kevin | 99000 |

+--------+------------+-----------+

8 rows in set (0.01 sec)

mysql> select count(emp\_id)

-> from employee

-> where sex = 'F';

+---------------+

| count(emp\_id) |

+---------------+

| 3 |

+---------------+

1 row in set (0.00 sec)

mysql> select \*

-> from employee

-> where salary > 90000

-> order by salary;

+--------+------------+-----------+------------+------+---------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+---------+----------+-----------+

| 100 | David | Wallace | 1967-11-17 | M | 250000 | NULL | 1 |

| 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | 1 |

+--------+------------+-----------+------------+------+---------+----------+-----------+

2 rows in set (0.00 sec)

mysql> select sex, count(sex)

-> from employee

-> group by sex;

+------+------------+

| sex | count(sex) |

+------+------------+

| M | 8 |

| F | 3 |

+------+------------+

2 rows in set (0.00 sec)

mysql> select \*

-> from employee

-> where ;

mysql> select emp\_id, sum(total\_sales)

-> from Works\_With

-> group by emp\_id;

+--------+------------------+

| emp\_id | sum(total\_sales) |

+--------+------------------+

| 102 | 282000 |

| 105 | 218000 |

| 107 | 31000 |

| 108 | 34500 |

+--------+------------------+

4 rows in set (0.00 sec)

mysql> select first\_name, emp\_id

-> from employee

-> where salary > (select avg(salary) from employee);

+------------+--------+

| first\_name | emp\_id |

+------------+--------+

| David | 100 |

| Jan | 101 |

+------------+--------+

2 rows in set (0.00 sec)

mysql> select emp\_id, first\_name, last\_name

-> from employee

-> where salary > (select avg(salary) \* 2 from employee) or last\_name like 'S%';

+--------+------------+-----------+

| emp\_id | first\_name | last\_name |

+--------+------------+-----------+

| 101 | Jan | Levinson |

| 102 | Michael | Scott |

+--------+------------+-----------+

2 rows in set (0.01 sec)

mysql> select \*

-> from employee

-> where salary >= all(select salary from employee);

+--------+------------+-----------+------------+------+---------+----------+-----------+

| emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_id |

+--------+------------+-----------+------------+------+---------+----------+-----------+

| 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | 1 |

+--------+------------+-----------+------------+------+---------+----------+-----------+

1 row in set (0.00 sec)

mysql> select \*

-> from employee natural join branch

-> where salary >= 80000;

+-----------+--------+------------+-----------+------------+------+---------+----------+-------------+--------+----------------+

| branch\_id | emp\_id | first\_name | last\_name | birth\_date | sex | salary | super\_id | branch\_name | mgr\_id | mgr\_start\_date |

+-----------+--------+------------+-----------+------------+------+---------+----------+-------------+--------+----------------+

| 1 | 100 | David | Wallace | 1967-11-17 | M | 250000 | NULL | Corporate | 100 | 2006-02-09 |

| 1 | 101 | Jan | Levinson | 1961-05-11 | F | 1100000 | 100 | Corporate | 100 | 2006-02-09 |

+-----------+--------+------------+-----------+------------+------+---------+----------+-------------+--------+----------------+

2 rows in set (0.00 sec