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1. Direct comparison operators

In this section we will look at the direct comparison operators.

These operators compare two expressions. The SQL comparison operators are;

```
= != <>
> >= < <=
```

1.1. Tests for exact matches

Demo 01: Display only rows with an exact match on Salary.

```
select emp_id
, name_last as "Employee"
, salary
from a_emp.employees
where salary = 12000;
+----+
| emp_id | Employee | salary |
+----+
| 108 | Green | 12000.00 |
+----+
```

Demo 02: Some queries do not return any rows. This does not mean the query is incorrect. We just do not have any matching rows. Depending on the client the results might be shown with a header only or just with a message.

```
select emp_id
, name_last as "Employee"
, salary
from a_emp.employees
where salary = 18888
;
Empty set (0.00 sec)
```

Demo 03: Display only location rows with a country-id of US.

Demo 04: MySQL is not case specific on text comparisons.

Demo 05: Test date values using the default date format; enclose the date literal in single quotes.

Demo 06: Using a Row equality test.

1.2. Tests for non-matches

Demo 07: Use the not equals operator to exclude rows. You can use != or <>

1.3. Tests for inequalities

Demo 08: Finding jobs with a max salary less than \$60,000. Do not include formatting characters- such as the \$ or the comma in the literal.

```
select job_id, max_salary
, job_title
from a_emp.jobs
where max_salary <60000;
+----+
| job_id | max_salary | job_title |
+----+
| 8 | 30000.00 | Sales Rep |
+----+</pre>
```

Demo 09: Finding jobs with a max salary greater than or equal to 60000.

```
select job_id, max_salary
, job_title
from a_emp.jobs
where max_salary >= 60000;
+----+
| job_id | max_salary | job_title |
+----+
| 1 | 100000.00 | President |
| 2 | 75000.00 | Marketing |
| 4 | 60000.00 | Sales Manager |
| 16 | 120000.00 | Programmer |
+----+
```

2. Tests that require conversions

These are queries that you could try to run that might not work at all in some dbms; that might work with invalid conversions; or that might turn out OK. In any case you should not run these types of queries- care about your data!

Demo 10: Comparing a string to a number: You should test the numeric salary attribute against a number-not against a string.

```
select emp_id
, name_last as "Employee"
, salary
from a_emp.employees
where salary = '15000';
```

Demo 11: -- comparing a date to a number

```
select emp_id
, hire_date
from a_emp.employees
where hire date> 34567;
```