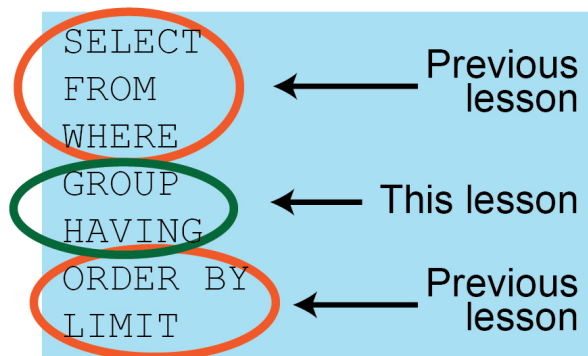


MySQL Exercise 5: Summaries of Groups of Data

So far you've learned how to select, reformat, manipulate, order, and summarize data from a single table in database. In this lesson, you are going to learn how to summarize multiple subsets of your data in the same query. The method for doing this is to include a "GROUP BY" clause in your SQL query.

The GROUP BY clause

The GROUP BY clause comes after the WHERE clause, but before ORDER BY or LIMIT:



The GROUP BY clause is easy to incorporate into your queries. In fact, it might be a little too easy to incorporate into MySQL queries, because it can be used incorrectly in MySQL queries even when no error message is displayed. As a consequence, I suggest you adopt a healthy dose of caution every time you use the GROUP BY clause. By the end of this lesson, you will understand why. When used correctly, though, GROUP BY is one of the most useful and efficient parts of an SQL query, and once you are comfortable using it, you will use it very frequently.

To get started, load the SQL library and the Dognition database, and set the dognition database as the default:

```
In [2]: %load_ext sql
        %sql mysql://studentuser:studentpw@localhost/dognitiondb
        %sql USE dognitiondb

* mysql://studentuser:***@localhost/dognitiondb
0 rows affected.
```

```
Out[2]: []
```

Let's return to a question from MySQL Exercise 4. How would you query the average rating for each of the 40 tests in the Reviews table? As we discussed, one very inefficient method to do that would be to write 40 separate queries with each one having a different test name in the WHERE conditional clause. Then you could copy or transcribe the results from all 40 queries into one place. But that wouldn't be very pleasant. Here's how you could do the same thing using one query that has a GROUP BY clause:

```
SELECT test_name, AVG(rating) AS AVG_Rating
FROM reviews
GROUP BY test_name
```

This query will output the average rating for each test. More technically, this query will instruct MySQL to average all the rows that have the same value in the test_name column.

Notice that I included test_name in the SELECT statement. As a strong rule of thumb, if you are grouping by a column, you should also include that column in the SELECT statement. If you don't do this, you won't know to which group each row of your output corresponds.

To see what I mean, try the query above without test_name included in the SELECT statement:

```
In [2]: %%sql
SELECT test_name, AVG(rating) AS AVG_Rating
FROM reviews
GROUP BY test_name;

* mysql://studentuser:***@localhost/dognitiondb
40 rows affected.
```

```
Out[2]:
```

	test_name	AVG_Rating
	1 vs 1 Game	3.9206
	3 vs 1 Game	4.2857
	5 vs 1 Game	3.9272
	Arm Pointing	4.2153
	Cover Your Eyes	2.6741
	Delayed Cup Game	3.3514
	Different Perspective	2.7647
	Expression Game	4.0000
	Eye Contact Game	2.9372
	Eye Contact Warm-up	0.9632
	Foot Pointing	4.0093
	Impossible Task Game	3.0965
	Impossible Task Warm-up	0.2174
	Inferential Reasoning Game	4.5223
	Inferential Reasoning Warm-up	4.3066
	Memory versus Pointing	3.5584
	Memory versus Smell	4.2623
	Navigation Game	2.9841
	Navigation Learning	2.0303
	Navigation Warm-up	1.9805
	Numerosity Warm-Up	2.6173
	One Cup Warm-up	1.3693
	Physical Reasoning Game	3.8492
	Physical Reasoning Warm-up	1.6625
	Self Control Game	3.8519
	Shaker Game	4.6667
	Shaker Warm-Up	2.1818
	Shared Perspective	3.2778
	Slide	4.5111
	Smell Game	4.2857
	Stair Game	4.2857
	Switch	5.5676
	Treat Warm-up	0.7909
	Turn Your Back	3.1293
	Two Cup Warm-up	1.6737
	Warm-Up	1.2020
	Watching	2.4594
	Watching - Part 2	2.6570
	Yawn Game	2.8477
	Yawn Warm-up	2.0035

You can form groups using derived values as well as original columns. To illustrate this, let's address another question: how many tests were completed during each month of the year?

To answer this question, we need to take advantage of another datetime function described in the website below:

<http://www.w3resource.com/mysql/date-and-time-functions/date-and-time-functions.php> (<http://www.w3resource.com/mysql/date-and-time-functions/date-and-time-functions.php>)

MONTH() will return a number representing the month of a date entry. To get the total number of tests completed each month, you could put the MONTH function into the GROUP BY clause, in this case through an alias:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY Month;
```

You can also group by multiple columns or derived fields. If we wanted to determine the total number of each type of test completed each month, you could include both "test_name" and the derived "Month" field in the GROUP BY clause, separated by a comma.

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY test_name, Month;
```

MySQL allows you to use aliases in a GROUP BY clause, but some database systems do not. If you are using a database system that does NOT accept aliases in GROUP BY clauses, you can still group by derived fields, but you have to duplicate the calculation for the derived field in the GROUP BY clause in addition to including the derived field in the SELECT clause:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY test_name, MONTH(created_at);
```

Try the query once with test_name first in the GROUP BY list, and once with Month first in the GROUP BY list below. Inspect the outputs:

```
In [3]: %%sql
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY test_name, MONTH(created_at);
```

```
* mysql://studentuser:***@localhost/dognitiondb
480 rows affected.
```

Out[3]:

test_name	Month	Num_Completed_Tests
1 vs 1 Game	1	25
1 vs 1 Game	2	28
1 vs 1 Game	3	22
1 vs 1 Game	4	12
1 vs 1 Game	5	13
1 vs 1 Game	6	18
1 vs 1 Game	7	36
1 vs 1 Game	8	17
1 vs 1 Game	9	28
1 vs 1 Game	10	27
1 vs 1 Game	11	15
1 vs 1 Game	12	14
3 vs 1 Game	1	35
3 vs 1 Game	2	28
3 vs 1 Game	3	34
3 vs 1 Game	4	16
3 vs 1 Game	5	34
3 vs 1 Game	6	42
3 vs 1 Game	7	37
3 vs 1 Game	8	23
3 vs 1 Game	9	24
3 vs 1 Game	10	28
3 vs 1 Game	11	22
3 vs 1 Game	12	45
5 vs 1 Game	1	59
5 vs 1 Game	2	54
5 vs 1 Game	3	57
5 vs 1 Game	4	29
5 vs 1 Game	5	50
5 vs 1 Game	6	61
5 vs 1 Game	7	69
5 vs 1 Game	8	38
5 vs 1 Game	9	50
5 vs 1 Game	10	54
5 vs 1 Game	11	40
5 vs 1 Game	12	59
Arm Pointing	1	622
Arm Pointing	2	498
Arm Pointing	3	507
Arm Pointing	4	381
Arm Pointing	5	1149
Arm Pointing	6	1424
Arm Pointing	7	913
Arm Pointing	8	779
Arm Pointing	9	1243

Arm Pointing	10	2535
Arm Pointing	11	735
Arm Pointing	12	666
Cover Your Eyes	1	452
Cover Your Eyes	2	373
Cover Your Eyes	3	416
Cover Your Eyes	4	291
Cover Your Eyes	5	753
Cover Your Eyes	6	767
Cover Your Eyes	7	521
Cover Your Eyes	8	408
Cover Your Eyes	9	574
Cover Your Eyes	10	1653
Cover Your Eyes	11	595
Cover Your Eyes	12	447
Delayed Cup Game	1	356
Delayed Cup Game	2	319
Delayed Cup Game	3	350
Delayed Cup Game	4	256
Delayed Cup Game	5	539
Delayed Cup Game	6	525
Delayed Cup Game	7	407
Delayed Cup Game	8	355
Delayed Cup Game	9	424
Delayed Cup Game	10	1019
Delayed Cup Game	11	422
Delayed Cup Game	12	299
Different Perspective	1	2
Different Perspective	2	3
Different Perspective	3	4
Different Perspective	4	8
Different Perspective	5	12
Different Perspective	6	11
Different Perspective	7	8
Different Perspective	8	10
Different Perspective	9	12
Different Perspective	10	4
Different Perspective	11	6
Different Perspective	12	9
Expression Game	1	6
Expression Game	2	9
Expression Game	3	12
Expression Game	4	10
Expression Game	5	9
Expression Game	6	11
Expression Game	7	12
Expression Game	8	11

Expression Game	9	17
Expression Game	10	3
Expression Game	11	11
Expression Game	12	13
Eye Contact Game	1	624
Eye Contact Game	2	564
Eye Contact Game	3	589
Eye Contact Game	4	449
Eye Contact Game	5	1408
Eye Contact Game	6	1812
Eye Contact Game	7	1194
Eye Contact Game	8	1130
Eye Contact Game	9	1674
Eye Contact Game	10	3452
Eye Contact Game	11	889
Eye Contact Game	12	760
Eye Contact Warm-up	1	707
Eye Contact Warm-up	2	616
Eye Contact Warm-up	3	616
Eye Contact Warm-up	4	454
Eye Contact Warm-up	5	1636
Eye Contact Warm-up	6	2152
Eye Contact Warm-up	7	1379
Eye Contact Warm-up	8	1256
Eye Contact Warm-up	9	1967
Eye Contact Warm-up	10	3675
Eye Contact Warm-up	11	941
Eye Contact Warm-up	12	839
Foot Pointing	1	506
Foot Pointing	2	433
Foot Pointing	3	477
Foot Pointing	4	339
Foot Pointing	5	926
Foot Pointing	6	1125
Foot Pointing	7	759
Foot Pointing	8	653
Foot Pointing	9	992
Foot Pointing	10	2290
Foot Pointing	11	685
Foot Pointing	12	566
Impossible Task Game	1	49
Impossible Task Game	2	48
Impossible Task Game	3	36
Impossible Task Game	4	43
Impossible Task Game	5	49
Impossible Task Game	6	59
Impossible Task Game	7	50

Impossible Task Game	8	32
Impossible Task Game	9	35
Impossible Task Game	10	37
Impossible Task Game	11	48
Impossible Task Game	12	46
Impossible Task Warm-up	1	51
Impossible Task Warm-up	2	49
Impossible Task Warm-up	3	37
Impossible Task Warm-up	4	43
Impossible Task Warm-up	5	49
Impossible Task Warm-up	6	58
Impossible Task Warm-up	7	51
Impossible Task Warm-up	8	34
Impossible Task Warm-up	9	36
Impossible Task Warm-up	10	36
Impossible Task Warm-up	11	49
Impossible Task Warm-up	12	46
Inferential Reasoning Game	1	410
Inferential Reasoning Game	2	297
Inferential Reasoning Game	3	335
Inferential Reasoning Game	4	254
Inferential Reasoning Game	5	533
Inferential Reasoning Game	6	544
Inferential Reasoning Game	7	432
Inferential Reasoning Game	8	350
Inferential Reasoning Game	9	398
Inferential Reasoning Game	10	785
Inferential Reasoning Game	11	362
Inferential Reasoning Game	12	280
Inferential Reasoning Warm-up	1	425
Inferential Reasoning Warm-up	2	302
Inferential Reasoning Warm-up	3	351
Inferential Reasoning Warm-up	4	257
Inferential Reasoning Warm-up	5	544
Inferential Reasoning Warm-up	6	550
Inferential Reasoning Warm-up	7	450
Inferential Reasoning Warm-up	8	354
Inferential Reasoning Warm-up	9	399
Inferential Reasoning Warm-up	10	794
Inferential Reasoning Warm-up	11	376
Inferential Reasoning Warm-up	12	296
Memory versus Pointing	1	464
Memory versus Pointing	2	395
Memory versus Pointing	3	381
Memory versus Pointing	4	299
Memory versus Pointing	5	711
Memory versus Pointing	6	704

Memory versus Pointing	7	511
Memory versus Pointing	8	415
Memory versus Pointing	9	574
Memory versus Pointing	10	1218
Memory versus Pointing	11	477
Memory versus Pointing	12	376
Memory versus Smell	1	465
Memory versus Smell	2	374
Memory versus Smell	3	382
Memory versus Smell	4	280
Memory versus Smell	5	667
Memory versus Smell	6	666
Memory versus Smell	7	491
Memory versus Smell	8	402
Memory versus Smell	9	529
Memory versus Smell	10	1111
Memory versus Smell	11	444
Memory versus Smell	12	352
Navigation Game	1	57
Navigation Game	2	41
Navigation Game	3	47
Navigation Game	4	41
Navigation Game	5	336
Navigation Game	6	81
Navigation Game	7	70
Navigation Game	8	41
Navigation Game	9	52
Navigation Game	10	69
Navigation Game	11	47
Navigation Game	12	45
Navigation Learning	1	59
Navigation Learning	2	43
Navigation Learning	3	47
Navigation Learning	4	45
Navigation Learning	5	444
Navigation Learning	6	90
Navigation Learning	7	74
Navigation Learning	8	34
Navigation Learning	9	54
Navigation Learning	10	70
Navigation Learning	11	47
Navigation Learning	12	47
Navigation Warm-up	1	62
Navigation Warm-up	2	43
Navigation Warm-up	3	50
Navigation Warm-up	4	42
Navigation Warm-up	5	625

Navigation Warm-up	6	114
Navigation Warm-up	7	88
Navigation Warm-up	8	40
Navigation Warm-up	9	58
Navigation Warm-up	10	76
Navigation Warm-up	11	52
Navigation Warm-up	12	49
Numerosity Warm-Up	1	36
Numerosity Warm-Up	2	28
Numerosity Warm-Up	3	35
Numerosity Warm-Up	4	17
Numerosity Warm-Up	5	37
Numerosity Warm-Up	6	44
Numerosity Warm-Up	7	37
Numerosity Warm-Up	8	23
Numerosity Warm-Up	9	24
Numerosity Warm-Up	10	29
Numerosity Warm-Up	11	26
Numerosity Warm-Up	12	46
One Cup Warm-up	1	476
One Cup Warm-up	2	388
One Cup Warm-up	3	388
One Cup Warm-up	4	313
One Cup Warm-up	5	757
One Cup Warm-up	6	745
One Cup Warm-up	7	536
One Cup Warm-up	8	416
One Cup Warm-up	9	602
One Cup Warm-up	10	1272
One Cup Warm-up	11	491
One Cup Warm-up	12	401
Physical Reasoning Game	1	317
Physical Reasoning Game	2	252
Physical Reasoning Game	3	321
Physical Reasoning Game	4	224
Physical Reasoning Game	5	430
Physical Reasoning Game	6	424
Physical Reasoning Game	7	360
Physical Reasoning Game	8	316
Physical Reasoning Game	9	309
Physical Reasoning Game	10	711
Physical Reasoning Game	11	341
Physical Reasoning Game	12	250
Physical Reasoning Warm-up	1	384
Physical Reasoning Warm-up	2	290
Physical Reasoning Warm-up	3	337
Physical Reasoning Warm-up	4	247

Physical Reasoning Warm-up	5	510
Physical Reasoning Warm-up	6	504
Physical Reasoning Warm-up	7	411
Physical Reasoning Warm-up	8	347
Physical Reasoning Warm-up	9	364
Physical Reasoning Warm-up	10	742
Physical Reasoning Warm-up	11	349
Physical Reasoning Warm-up	12	276
Self Control Game	1	8
Self Control Game	2	8
Self Control Game	3	11
Self Control Game	4	9
Self Control Game	5	9
Self Control Game	6	11
Self Control Game	7	14
Self Control Game	8	13
Self Control Game	9	19
Self Control Game	10	9
Self Control Game	11	15
Self Control Game	12	6
Shaker Game	1	2
Shaker Game	2	9
Shaker Game	3	8
Shaker Game	4	4
Shaker Game	5	10
Shaker Game	6	7
Shaker Game	7	5
Shaker Game	8	6
Shaker Game	9	12
Shaker Game	10	10
Shaker Game	11	3
Shaker Game	12	1
Shaker Warm-Up	1	2
Shaker Warm-Up	2	11
Shaker Warm-Up	3	8
Shaker Warm-Up	4	4
Shaker Warm-Up	5	10
Shaker Warm-Up	6	7
Shaker Warm-Up	7	5
Shaker Warm-Up	8	6
Shaker Warm-Up	9	13
Shaker Warm-Up	10	11
Shaker Warm-Up	11	3
Shaker Warm-Up	12	1
Shared Perspective	1	1
Shared Perspective	2	3
Shared Perspective	3	3

Shared Perspective	4	8
Shared Perspective	5	11
Shared Perspective	6	11
Shared Perspective	7	7
Shared Perspective	8	10
Shared Perspective	9	12
Shared Perspective	10	4
Shared Perspective	11	6
Shared Perspective	12	7
Slide	1	17
Slide	2	12
Slide	3	16
Slide	4	11
Slide	5	17
Slide	6	10
Slide	7	13
Slide	8	6
Slide	9	18
Slide	10	7
Slide	11	13
Slide	12	7
Smell Game	1	13
Smell Game	2	18
Smell Game	3	16
Smell Game	4	6
Smell Game	5	19
Smell Game	6	9
Smell Game	7	21
Smell Game	8	10
Smell Game	9	16
Smell Game	10	15
Smell Game	11	12
Smell Game	12	13
Stair Game	1	12
Stair Game	2	8
Stair Game	3	7
Stair Game	4	4
Stair Game	5	10
Stair Game	6	7
Stair Game	7	14
Stair Game	8	15
Stair Game	9	17
Stair Game	10	7
Stair Game	11	3
Stair Game	12	8
Switch	1	15
Switch	2	12

Switch	3	14
Switch	4	11
Switch	5	15
Switch	6	11
Switch	7	11
Switch	8	10
Switch	9	13
Switch	10	9
Switch	11	10
Switch	12	6
Treat Warm-up	1	626
Treat Warm-up	2	495
Treat Warm-up	3	515
Treat Warm-up	4	393
Treat Warm-up	5	1182
Treat Warm-up	6	1444
Treat Warm-up	7	951
Treat Warm-up	8	791
Treat Warm-up	9	1303
Treat Warm-up	10	2626
Treat Warm-up	11	744
Treat Warm-up	12	667
Turn Your Back	1	462
Turn Your Back	2	372
Turn Your Back	3	418
Turn Your Back	4	298
Turn Your Back	5	769
Turn Your Back	6	778
Turn Your Back	7	535
Turn Your Back	8	418
Turn Your Back	9	599
Turn Your Back	10	1711
Turn Your Back	11	601
Turn Your Back	12	467
Two Cup Warm-up	1	490
Two Cup Warm-up	2	386
Two Cup Warm-up	3	389
Two Cup Warm-up	4	308
Two Cup Warm-up	5	747
Two Cup Warm-up	6	732
Two Cup Warm-up	7	537
Two Cup Warm-up	8	419
Two Cup Warm-up	9	578
Two Cup Warm-up	10	1234
Two Cup Warm-up	11	482
Two Cup Warm-up	12	379
Warm-up	1	70

Warm-up	2	77
Warm-Up	3	79
Warm-Up	4	54
Warm-Up	5	71
Warm-Up	6	64
Warm-Up	7	101
Warm-Up	8	64
Warm-Up	9	103
Warm-up	10	69
Warm-Up	11	65
Warm-up	12	56
Watching	1	594
Watching	2	443
Watching	3	472
Watching	4	322
Watching	5	980
Watching	6	1035
Watching	7	679
Watching	8	511
Watching	9	809
Watching	10	1797
Watching	11	611
Watching	12	555
Watching - Part 2	1	445
Watching - Part 2	2	372
Watching - Part 2	3	406
Watching - Part 2	4	282
Watching - Part 2	5	734
Watching - Part 2	6	747
Watching - Part 2	7	504
Watching - Part 2	8	405
Watching - Part 2	9	568
Watching - Part 2	10	1578
Watching - Part 2	11	565
Watching - Part 2	12	438
Yawn Game	1	828
Yawn Game	2	709
Yawn Game	3	681
Yawn Game	4	525
Yawn Game	5	2065
Yawn Game	6	2906
Yawn Game	7	1775
Yawn Game	8	1520
Yawn Game	9	2563
Yawn Game	10	4073
Yawn Game	11	989
Yawn Game	12	978

Yawn Warm-up	1	834
Yawn Warm-up	2	712
Yawn Warm-up	3	698
Yawn Warm-up	4	541
Yawn Warm-up	5	2143
Yawn Warm-up	6	3071
Yawn Warm-up	7	1909
Yawn Warm-up	8	1694
Yawn Warm-up	9	2771
Yawn Warm-up	10	4387
Yawn Warm-up	11	1060
Yawn Warm-up	12	1043


```
In [4]: %%sql
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY MONTH(created_at),test_name;
```

```
* mysql://studentuser:***@localhost/dognitiondb  
480 rows affected.
```

Out[4]:

	test_name	Month	Num_Completed_Tests
	1 vs 1 Game	1	25
	3 vs 1 Game	1	35
	5 vs 1 Game	1	59
	Arm Pointing	1	622
	Cover Your Eyes	1	452
	Delayed Cup Game	1	356
	Different Perspective	1	2
	Expression Game	1	6
	Eye Contact Game	1	624
	Eye Contact Warm-up	1	707
	Foot Pointing	1	506
	Impossible Task Game	1	49
	Impossible Task Warm-up	1	51
	Inferential Reasoning Game	1	410
	Inferential Reasoning Warm-up	1	425
	Memory versus Pointing	1	464
	Memory versus Smell	1	465
	Navigation Game	1	57
	Navigation Learning	1	59
	Navigation Warm-up	1	62
	Numerosity Warm-Up	1	36
	One Cup Warm-up	1	476
	Physical Reasoning Game	1	317
	Physical Reasoning Warm-up	1	384
	Self Control Game	1	8
	Shaker Game	1	2
	Shaker Warm-Up	1	2
	Shared Perspective	1	1
	Slide	1	17
	Smell Game	1	13
	Stair Game	1	12
	Switch	1	15
	Treat Warm-up	1	626
	Turn Your Back	1	462
	Two Cup Warm-up	1	490
	Warm-up	1	70
	Watching	1	594
	Watching - Part 2	1	445
	Yawn Game	1	828
	Yawn Warm-up	1	834
	1 vs 1 Game	2	28
	3 vs 1 Game	2	28
	5 vs 1 Game	2	54
	Arm Pointing	2	498
	Cover Your Eyes	2	373

Delayed Cup Game	2	319
Different Perspective	2	3
Expression Game	2	9
Eye Contact Game	2	564
Eye Contact Warm-up	2	616
Foot Pointing	2	433
Impossible Task Game	2	48
Impossible Task Warm-up	2	49
Inferential Reasoning Game	2	297
Inferential Reasoning Warm-up	2	302
Memory versus Pointing	2	395
Memory versus Smell	2	374
Navigation Game	2	41
Navigation Learning	2	43
Navigation Warm-up	2	43
Numerosity Warm-Up	2	28
One Cup Warm-up	2	388
Physical Reasoning Game	2	252
Physical Reasoning Warm-up	2	290
Self Control Game	2	8
Shaker Game	2	9
Shaker Warm-Up	2	11
Shared Perspective	2	3
Slide	2	12
Smell Game	2	18
Stair Game	2	8
Switch	2	12
Treat Warm-up	2	495
Turn Your Back	2	372
Two Cup Warm-up	2	386
Warm-up	2	77
Watching	2	443
Watching - Part 2	2	372
Yawn Game	2	709
Yawn Warm-up	2	712
1 vs 1 Game	3	22
3 vs 1 Game	3	34
5 vs 1 Game	3	57
Arm Pointing	3	507
Cover Your Eyes	3	416
Delayed Cup Game	3	350
Different Perspective	3	4
Expression Game	3	12
Eye Contact Game	3	589
Eye Contact Warm-up	3	616
Foot Pointing	3	477
Impossible Task Game	3	36

Impossible Task Warm-up	3	37
Inferential Reasoning Game	3	335
Inferential Reasoning Warm-up	3	351
Memory versus Pointing	3	381
Memory versus Smell	3	382
Navigation Game	3	47
Navigation Learning	3	47
Navigation Warm-up	3	50
Numerosity Warm-Up	3	35
One Cup Warm-up	3	388
Physical Reasoning Game	3	321
Physical Reasoning Warm-up	3	337
Self Control Game	3	11
Shaker Game	3	8
Shaker Warm-Up	3	8
Shared Perspective	3	3
Slide	3	16
Smell Game	3	16
Stair Game	3	7
Switch	3	14
Treat Warm-up	3	515
Turn Your Back	3	418
Two Cup Warm-up	3	389
Warm-Up	3	79
Watching	3	472
Watching - Part 2	3	406
Yawn Game	3	681
Yawn Warm-up	3	698
1 vs 1 Game	4	12
3 vs 1 Game	4	16
5 vs 1 Game	4	29
Arm Pointing	4	381
Cover Your Eyes	4	291
Delayed Cup Game	4	256
Different Perspective	4	8
Expression Game	4	10
Eye Contact Game	4	449
Eye Contact Warm-up	4	454
Foot Pointing	4	339
Impossible Task Game	4	43
Impossible Task Warm-up	4	43
Inferential Reasoning Game	4	254
Inferential Reasoning Warm-up	4	257
Memory versus Pointing	4	299
Memory versus Smell	4	280
Navigation Game	4	41
Navigation Learning	4	45

Navigation Warm-up	4	42
Numerosity Warm-Up	4	17
One Cup Warm-up	4	313
Physical Reasoning Game	4	224
Physical Reasoning Warm-up	4	247
Self Control Game	4	9
Shaker Game	4	4
Shaker Warm-Up	4	4
Shared Perspective	4	8
Slide	4	11
Smell Game	4	6
Stair Game	4	4
Switch	4	11
Treat Warm-up	4	393
Turn Your Back	4	298
Two Cup Warm-up	4	308
Warm-Up	4	54
Watching	4	322
Watching - Part 2	4	282
Yawn Game	4	525
Yawn Warm-up	4	541
1 vs 1 Game	5	13
3 vs 1 Game	5	34
5 vs 1 Game	5	50
Arm Pointing	5	1149
Cover Your Eyes	5	753
Delayed Cup Game	5	539
Different Perspective	5	12
Expression Game	5	9
Eye Contact Game	5	1408
Eye Contact Warm-up	5	1636
Foot Pointing	5	926
Impossible Task Game	5	49
Impossible Task Warm-up	5	49
Inferential Reasoning Game	5	533
Inferential Reasoning Warm-up	5	544
Memory versus Pointing	5	711
Memory versus Smell	5	667
Navigation Game	5	336
Navigation Learning	5	444
Navigation Warm-up	5	625
Numerosity Warm-Up	5	37
One Cup Warm-up	5	757
Physical Reasoning Game	5	430
Physical Reasoning Warm-up	5	510
Self Control Game	5	9
Shaker Game	5	10

Shaker Warm-Up	5	10
Shared Perspective	5	11
Slide	5	17
Smell Game	5	19
Stair Game	5	10
Switch	5	15
Treat Warm-up	5	1182
Turn Your Back	5	769
Two Cup Warm-up	5	747
Warm-Up	5	71
Watching	5	980
Watching - Part 2	5	734
Yawn Game	5	2065
Yawn Warm-up	5	2143
1 vs 1 Game	6	18
3 vs 1 Game	6	42
5 vs 1 Game	6	61
Arm Pointing	6	1424
Cover Your Eyes	6	767
Delayed Cup Game	6	525
Different Perspective	6	11
Expression Game	6	11
Eye Contact Game	6	1812
Eye Contact Warm-up	6	2152
Foot Pointing	6	1125
Impossible Task Game	6	59
Impossible Task Warm-up	6	58
Inferential Reasoning Game	6	544
Inferential Reasoning Warm-up	6	550
Memory versus Pointing	6	704
Memory versus Smell	6	666
Navigation Game	6	81
Navigation Learning	6	90
Navigation Warm-up	6	114
Numerosity Warm-Up	6	44
One Cup Warm-up	6	745
Physical Reasoning Game	6	424
Physical Reasoning Warm-up	6	504
Self Control Game	6	11
Shaker Game	6	7
Shaker Warm-Up	6	7
Shared Perspective	6	11
Slide	6	10
Smell Game	6	9
Stair Game	6	7
Switch	6	11
Treat Warm-up	6	1444

Turn Your Back	6	778
Two Cup Warm-up	6	732
Warm-Up	6	64
Watching	6	1035
Watching - Part 2	6	747
Yawn Game	6	2906
Yawn Warm-up	6	3071
1 vs 1 Game	7	36
3 vs 1 Game	7	37
5 vs 1 Game	7	69
Arm Pointing	7	913
Cover Your Eyes	7	521
Delayed Cup Game	7	407
Different Perspective	7	8
Expression Game	7	12
Eye Contact Game	7	1194
Eye Contact Warm-up	7	1379
Foot Pointing	7	759
Impossible Task Game	7	50
Impossible Task Warm-up	7	51
Inferential Reasoning Game	7	432
Inferential Reasoning Warm-up	7	450
Memory versus Pointing	7	511
Memory versus Smell	7	491
Navigation Game	7	70
Navigation Learning	7	74
Navigation Warm-up	7	88
Numerosity Warm-Up	7	37
One Cup Warm-up	7	536
Physical Reasoning Game	7	360
Physical Reasoning Warm-up	7	411
Self Control Game	7	14
Shaker Game	7	5
Shaker Warm-Up	7	5
Shared Perspective	7	7
Slide	7	13
Smell Game	7	21
Stair Game	7	14
Switch	7	11
Treat Warm-up	7	951
Turn Your Back	7	535
Two Cup Warm-up	7	537
Warm-Up	7	101
Watching	7	679
Watching - Part 2	7	504
Yawn Game	7	1775
Yawn Warm-up	7	1909

1 vs 1 Game	8	17
3 vs 1 Game	8	23
5 vs 1 Game	8	38
Arm Pointing	8	779
Cover Your Eyes	8	408
Delayed Cup Game	8	355
Different Perspective	8	10
Expression Game	8	11
Eye Contact Game	8	1130
Eye Contact Warm-up	8	1256
Foot Pointing	8	653
Impossible Task Game	8	32
Impossible Task Warm-up	8	34
Inferential Reasoning Game	8	350
Inferential Reasoning Warm-up	8	354
Memory versus Pointing	8	415
Memory versus Smell	8	402
Navigation Game	8	41
Navigation Learning	8	34
Navigation Warm-up	8	40
Numerosity Warm-Up	8	23
One Cup Warm-up	8	416
Physical Reasoning Game	8	316
Physical Reasoning Warm-up	8	347
Self Control Game	8	13
Shaker Game	8	6
Shaker Warm-Up	8	6
Shared Perspective	8	10
Slide	8	6
Smell Game	8	10
Stair Game	8	15
Switch	8	10
Treat Warm-up	8	791
Turn Your Back	8	418
Two Cup Warm-up	8	419
Warm-Up	8	64
Watching	8	511
Watching - Part 2	8	405
Yawn Game	8	1520
Yawn Warm-up	8	1694
1 vs 1 Game	9	28
3 vs 1 Game	9	24
5 vs 1 Game	9	50
Arm Pointing	9	1243
Cover Your Eyes	9	574
Delayed Cup Game	9	424
Different Perspective	9	12

Expression Game	9	17
Eye Contact Game	9	1674
Eye Contact Warm-up	9	1967
Foot Pointing	9	992
Impossible Task Game	9	35
Impossible Task Warm-up	9	36
Inferential Reasoning Game	9	398
Inferential Reasoning Warm-up	9	399
Memory versus Pointing	9	574
Memory versus Smell	9	529
Navigation Game	9	52
Navigation Learning	9	54
Navigation Warm-up	9	58
Numerosity Warm-Up	9	24
One Cup Warm-up	9	602
Physical Reasoning Game	9	309
Physical Reasoning Warm-up	9	364
Self Control Game	9	19
Shaker Game	9	12
Shaker Warm-Up	9	13
Shared Perspective	9	12
Slide	9	18
Smell Game	9	16
Stair Game	9	17
Switch	9	13
Treat Warm-up	9	1303
Turn Your Back	9	599
Two Cup Warm-up	9	578
Warm-Up	9	103
Watching	9	809
Watching - Part 2	9	568
Yawn Game	9	2563
Yawn Warm-up	9	2771
1 vs 1 Game	10	27
3 vs 1 Game	10	28
5 vs 1 Game	10	54
Arm Pointing	10	2535
Cover Your Eyes	10	1653
Delayed Cup Game	10	1019
Different Perspective	10	4
Expression Game	10	3
Eye Contact Game	10	3452
Eye Contact Warm-up	10	3675
Foot Pointing	10	2290
Impossible Task Game	10	37
Impossible Task Warm-up	10	36
Inferential Reasoning Game	10	785

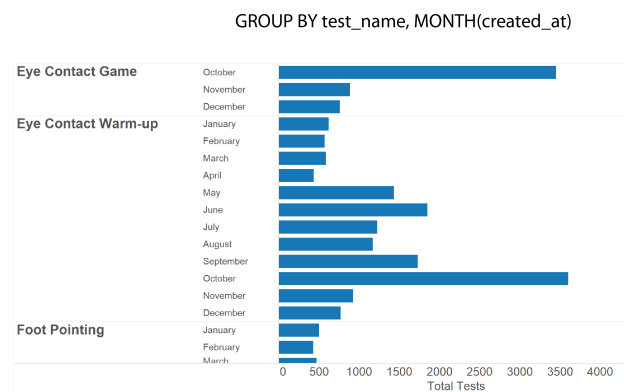
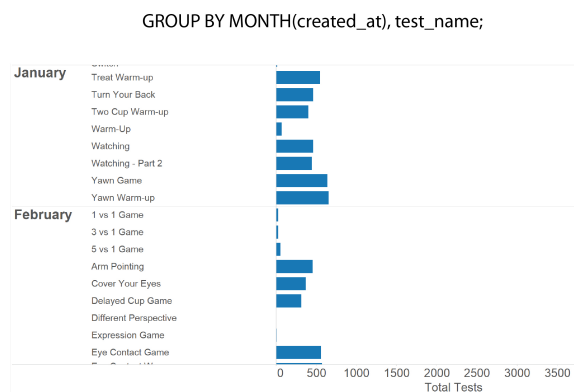
Inferential Reasoning Warm-up	10	794
Memory versus Pointing	10	1218
Memory versus Smell	10	1111
Navigation Game	10	69
Navigation Learning	10	70
Navigation Warm-up	10	76
Numerosity Warm-Up	10	29
One Cup Warm-up	10	1272
Physical Reasoning Game	10	711
Physical Reasoning Warm-up	10	742
Self Control Game	10	9
Shaker Game	10	10
Shaker Warm-Up	10	11
Shared Perspective	10	4
Slide	10	7
Smell Game	10	15
Stair Game	10	7
Switch	10	9
Treat Warm-up	10	2626
Turn Your Back	10	1711
Two Cup Warm-up	10	1234
Warm-up	10	69
Watching	10	1797
Watching - Part 2	10	1578
Yawn Game	10	4073
Yawn Warm-up	10	4387
1 vs 1 Game	11	15
3 vs 1 Game	11	22
5 vs 1 Game	11	40
Arm Pointing	11	735
Cover Your Eyes	11	595
Delayed Cup Game	11	422
Different Perspective	11	6
Expression Game	11	11
Eye Contact Game	11	889
Eye Contact Warm-up	11	941
Foot Pointing	11	685
Impossible Task Game	11	48
Impossible Task Warm-up	11	49
Inferential Reasoning Game	11	362
Inferential Reasoning Warm-up	11	376
Memory versus Pointing	11	477
Memory versus Smell	11	444
Navigation Game	11	47
Navigation Learning	11	47
Navigation Warm-up	11	52
Numerosity Warm-Up	11	26

One Cup Warm-up	11	491
Physical Reasoning Game	11	341
Physical Reasoning Warm-up	11	349
Self Control Game	11	15
Shaker Game	11	3
Shaker Warm-Up	11	3
Shared Perspective	11	6
Slide	11	13
Smell Game	11	12
Stair Game	11	3
Switch	11	10
Treat Warm-up	11	744
Turn Your Back	11	601
Two Cup Warm-up	11	482
Warm-Up	11	65
Watching	11	611
Watching - Part 2	11	565
Yawn Game	11	989
Yawn Warm-up	11	1060
1 vs 1 Game	12	14
3 vs 1 Game	12	45
5 vs 1 Game	12	59
Arm Pointing	12	666
Cover Your Eyes	12	447
Delayed Cup Game	12	299
Different Perspective	12	9
Expression Game	12	13
Eye Contact Game	12	760
Eye Contact Warm-up	12	839
Foot Pointing	12	566
Impossible Task Game	12	46
Impossible Task Warm-up	12	46
Inferential Reasoning Game	12	280
Inferential Reasoning Warm-up	12	296
Memory versus Pointing	12	376
Memory versus Smell	12	352
Navigation Game	12	45
Navigation Learning	12	47
Navigation Warm-up	12	49
Numerosity Warm-Up	12	46
One Cup Warm-up	12	401
Physical Reasoning Game	12	250
Physical Reasoning Warm-up	12	276
Self Control Game	12	6
Shaker Game	12	1
Shaker Warm-Up	12	1
Shared Perspective	12	7

Slide	12	7
Smell Game	12	13
Stair Game	12	8
Switch	12	6
Treat Warm-up	12	667
Turn Your Back	12	467
Two Cup Warm-up	12	379
Warm-up	12	56
Watching	12	555
Watching - Part 2	12	438
Yawn Game	12	978
Yawn Warm-up	12	1043

Notice that in the first case, the first block of rows share the same test_name, but are broken up into separate months (for those of you who took the "Data Visualization and Communication with Tableau" course of this specialization, this is similar to what would happen if you put test_name first and created_at second on the rows or columns shelf in Tableau).

In the second case, the first block of rows share the same month, but are broken up into separate tests (this is similar to what would happen if you put created_at first and test_name second on the rows or columns shelf in Tableau). If you were to visualize these outputs, they would look like the charts below.



Different database servers might default to ordering the outputs in a certain way, but you shouldn't rely on that being the case. To ensure the output is ordered in a way you intend, add an ORDER BY clause to your grouped query using the syntax you already know and have practiced:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY test_name, Month
ORDER BY test_name ASC, Month ASC;
```

Question 1: Output a table that calculates the number of distinct female and male dogs in each breed group of the Dogs table, sorted by the total number of dogs in descending order (the sex/breed_group pair with the greatest number of dogs should have 8466 unique Dog_Guids):

```
In [8]: %%sql
SELECT breed_group, gender, COUNT(DISTINCT dog_guid) AS Num_of_Dogs
FROM dogs
GROUP BY breed_group, gender
ORDER BY Num_of_Dogs DESC;

* mysql://studentuser:***@localhost/dognitiondb
18 rows affected.
```

```
Out[8]: breed_group  gender  Num_of_Dogs
        None      male      8466
        None      female     8367
        Sporting   male      2584
        Sporting   female     2262
        Herding    male      1736
        Herding    female     1704
        Toy        male      1473
        Toy        female     1145
        Non-Sporting male      1098
        Working    male      1075
        Non-Sporting female     919
        Terrier    male      919
        Working    female     895
        Terrier    female     794
        Hound      male      725
        Hound      female     614
                male      147
                female     127
```

Some database servers, including MySQL, allow you to use numbers in place of field names in the GROUP BY or ORDER BY fields to reduce the overall length of the queries. I tend to avoid this abbreviated method of writing queries because I find it challenging to troubleshoot when you are writing complicated queries with many fields, but it does allow you to write queries faster. To use this method, assign each field in your SELECT statement a number according to the order the field appears in the SELECT statement. In the following statement:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
```

test_name would be #1, Month would be #2, and Num_Completed_Tests would be #3. You could then rewrite the query above to read:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
GROUP BY 1, 2
ORDER BY 1 ASC, 2 ASC;
```

Question 2: Revise the query you wrote in Question 1 so that it uses only numbers in the GROUP BY and ORDER BY fields.

```
In [4]: %%sql
SELECT breed_group, gender, COUNT(DISTINCT dog_guid) AS Num_of_Dogs
FROM dogs
GROUP BY 1,2
ORDER BY 3 DESC;

* mysql://studentuser:***@localhost/dognitiondb
18 rows affected.
```

```
Out[4]:
```

breed_group	gender	Num_of_Dogs
None	male	8466
None	female	8367
Sporting	male	2584
Sporting	female	2262
Herding	male	1736
Herding	female	1704
Toy	male	1473
Toy	female	1145
Non-Sporting	male	1098
Working	male	1075
Non-Sporting	female	919
Terrier	male	919
Working	female	895
Terrier	female	794
Hound	male	725
Hound	female	614
	male	147
	female	127

The HAVING clause

Just like you can query subsets of rows using the WHERE clause, you can query subsets of aggregated groups using the HAVING clause. However, whereas the expression that follows a WHERE clause has to be applicable to each row of data in a column, the expression that follows a HAVING clause has to be applicable or computable using a group of data.

If you wanted to examine the number of tests completed only during the winter holiday months of November and December, you would need to use a WHERE clause, because the month a test was completed in is recorded in each row. Your query might look like this:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
WHERE MONTH(created_at)=11 OR MONTH(created_at)=12
GROUP BY 1, 2
ORDER BY 3 DESC;
```

If you then wanted to output only the test-month pairs that had at least 20 records in them, you would add a HAVING clause, because the stipulation of at least 20 records only makes sense and is only computable at the aggregated group level:

```
SELECT test_name, MONTH(created_at) AS Month, COUNT(created_at) AS Num_Completed_Tests
FROM complete_tests
WHERE MONTH(created_at)=11 OR MONTH(created_at)=12
GROUP BY 1, 2
HAVING COUNT(created_at)>=20
ORDER BY 3 DESC;
```

Question 3: Revise the query you wrote in Question 2 so that it (1) excludes the NULL and empty string entries in the breed_group field, and (2) excludes any groups that don't have at least 1,000 distinct Dog_Guids in them. Your result should contain 8 rows. (HINT: sometimes empty strings are registered as non-NULL values. You might want to include the following line somewhere in your query to exclude these values as well):

```
breed_group!=" "
```

```
In [5]: %%sql
SELECT breed_group, gender, COUNT(DISTINCT dog_guid) AS Num_of_Dogs
FROM dogs
WHERE breed_group IS NOT NULL
      AND breed_group!=" "
      AND breed_group!="None"
GROUP BY 1,2
HAVING Num_of_Dogs>=1000
ORDER BY 3 DESC;
```

```
* mysql://studentuser:***@localhost/dognitiondb
8 rows affected.
```

```
Out[5]:
```

breed_group	gender	Num_of_Dogs
Sporting	male	2584
Sporting	female	2262
Herding	male	1736
Herding	female	1704
Toy	male	1473
Toy	female	1145
Non-Sporting	male	1098
Working	male	1075

We will review several issues that can be tricky about using GROUP BY in your queries in the next lesson, but those issues will make more sense once you are sure you are comfortable with the basic functionality of the GROUP BY and HAVING clauses.

Practice incorporating GROUP BY and HAVING into your own queries.

Question 4: Write a query that outputs the average number of tests completed and average mean inter-test-interval for every breed type, sorted by the average number of completed tests in descending order (popular hybrid should be the first row in your output).

```
In [7]: %%sql
SELECT breed_type, AVG(total_tests_completed), AVG(mean_iti_minutes)
FROM dogs
GROUP BY breed_type
ORDER BY 2 DESC;
```

```
* mysql://studentuser:***@localhost/dognitiondb
4 rows affected.
```

```
Out[7]:
```

breed_type	AVG(total_tests_completed)	AVG(mean_iti_minutes)
Popular Hybrid	10.257530120481928	2834.3205728931534
Cross Breed	9.945900537634408	2872.351156110182
Pure Breed	9.871602824737856	3193.350493795222
Mixed Breed/ Other/ I Don't Know	9.54250850170034	3023.0711302156274

Question 5: Write a query that outputs the average amount of time it took customers to complete each type of test where any individual reaction times over 6000 hours are excluded and only average reaction times that are greater than 0 are included (your output should end up with 58 rows).

```
In [14]: %%sql
SELECT test_name,AVG(TIMESTAMPDIFF(HOUR,start_time,end_time)) AS Duration
FROM exam_answers
WHERE TIMESTAMPDIFF(minute,start_time,end_time)<6000
GROUP BY test_name
HAVING AVG(TIMESTAMPDIFF(minute,start_time,end_time))>0
ORDER BY Duration;
```

```
* mysql://studentuser:***@localhost/dognitiondb
67 rows affected.
```

Out[14]:

test_name	Duration
5 vs 1 Game	0.0000
Smell Game	0.0000
3 vs 1 Game	0.0000
Slide	0.0000
Expression Game	0.0000
Shaker Game	0.0000
1 vs 1 Game	0.0000
Self Control Game	0.0000
Shared Perspective	0.0000
Memory versus Pointing	0.0057
Physical Reasoning Game	0.0065
Two Cup Warm-up	0.0086
Numerosity Warm-Up	0.0116
Inferential Reasoning Game	0.0157
Delayed Cup Game	0.0158
Obedience	0.0169
Navigation Learning	0.0226
Memory versus Smell	0.0235
Arm Pointing	0.0238
Impossible Task Game	0.0238
Partnership	0.0244
Excitability	0.0263
Foot Pointing	0.0281
Recall	0.0296
Puzzles	0.0310
Purina	0.0327
Inferential Reasoning Warm-up	0.0336
Perception	0.0339
Physical Reasoning Warm-up	0.0351
Attachment	0.0381
Purina-Only	0.0430
Shy/Boldness	0.0436
One Cup Warm-up	0.0472
Warm-Up	0.0486
Different Perspective	0.0493
Eye Contact Warm-up	0.0513
Toys	0.0521
Switch	0.0531
Training	0.0550
Cover Your Eyes	0.0555
Owner	0.0567
Treat Warm-up	0.0601
Shaker Warm-Up	0.0644
Eye Contact Game	0.0738
Turn Your Back	0.0759

Environment	0.0779
Set 1	0.0790
Stair Game	0.0793
Watching - Part 2	0.0834
Gender	0.0882
Impossible Task Warm-up	0.1040
Emotions	0.1173
Physical	0.1232
Set 2	0.1259
Navigation Game	0.1273
Yawn Game	0.1556
Navigation Warm-up	0.1637
Confinement	0.1757
Surprise And Delight	0.2592
Set 3	0.2641
Watching	0.2822
Sociability	0.3241
Activity	0.5096
Yawn Warm-up	0.5921
Diet	0.6735
Social	0.7465
Social-Quiz	2.3382

Question 6: Write a query that outputs the total number of unique User_Guids in each combination of State and ZIP code (postal code) in the United States, sorted first by state name in ascending alphabetical order, and second by total number of unique User_Guids in descending order (your first state should be AE and there should be 5043 rows in total in your output).

```
In [16]: %%sql
SELECT state,zip,COUNT(DISTINCT user_guid) AS Num_Users
FROM users
WHERE country="US"
GROUP BY state,zip
ORDER BY state,Num_Users DESC;
```

```
* mysql://studentuser:***@localhost/dognitiondb  
5043 rows affected.
```

Out[16]:

state	zip	Num_Users
AE	9128	2
AE	9053	1
AE	9107	1
AE	9469	1
AE	9845	1
AK	99507	3
AK	99709	3
AK	99501	2
AK	99577	2
AK	99502	1
AK	99509	1
AK	99516	1
AK	99518	1
AK	99567	1
AK	99587	1
AK	99611	1
AK	99645	1
AK	99676	1
AK	99705	1
AK	99712	1
AK	99752	1
AK	99775	1
AK	99824	1
AK	99928	1
AL	35209	4
AL	35801	2
AL	36116	2
AL	36532	2
AL	36609	2
AL	36695	1
AL	35094	1
AL	36801	1
AL	35121	1
AL	36832	1
AL	35179	1
AL	35205	1
AL	35216	1
AL	35242	1
AL	35405	1
AL	35476	1
AL	35646	1
AL	35662	1
AL	35674	1
AL	35758	1
AL	35760	1

AL	35763	1
AL	35803	1
AL	35906	1
AL	35976	1
AL	36037	1
AL	36104	1
AL	36106	1
AL	36203	1
AL	36303	1
AL	36375	1
AL	36527	1
AL	36561	1
AL	36602	1
AL	36604	1
AL	35004	1
AL	35007	1
AP	96205	1
AP	96310	1
AP	96367	1
AP	96377	1
AR	72207	3
AR	72401	3
AR	72712	2
AR	72223	2
AR	72632	2
AR	72704	1
AR	72714	1
AR	72756	1
AR	72762	1
AR	72802	1
AR	72901	1
AR	72908	1
AR	71909	1
AR	72956	1
AR	71913	1
AR	72015	1
AR	72034	1
AR	72042	1
AR	72058	1
AR	72113	1
AR	72135	1
AR	72201	1
AR	72202	1
AR	72206	1
AR	72212	1
AR	72554	1
AR	72631	1

AR	72701	1
AR	72703	1
AZ	86303	14
AZ	85718	6
AZ	85711	5
AZ	85749	5
AZ	85253	5
AZ	85254	5
AZ	85260	5
AZ	N/A	4
AZ	85716	4
AZ	85719	4
AZ	85750	4
AZ	85266	4
AZ	85283	3
AZ	85296	3
AZ	85392	3
AZ	85233	3
AZ	85021	3
AZ	85737	3
AZ	85022	3
AZ	85250	3
AZ	85032	3
AZ	85255	3
AZ	85042	3
AZ	85257	3
AZ	85044	3
AZ	85048	3
AZ	86305	3
AZ	85282	3
AZ	86351	2
AZ	85304	2
AZ	85143	2
AZ	85202	2
AZ	85704	2
AZ	85203	2
AZ	85206	2
AZ	85712	2
AZ	85715	2
AZ	85374	2
AZ	85739	2
AZ	85024	2
AZ	85745	2
AZ	85251	2
AZ	85028	2
AZ	85748	2
AZ	85259	2

AZ 85045	2
AZ 85281	2
AZ 85086	2
AZ 85615	2
AZ 86327	1
AZ 85622	1
AZ 85119	1
AZ 86336	1
AZ 85635	1
AZ 85284	1
AZ 85120	1
AZ 85122	1
AZ 85636	1
AZ 85286	1
AZ 85128	1
AZ 86403	1
AZ 85641	1
AZ 85138	1
AZ 86426	1
AZ 85646	1
AZ 85303	1
AZ 85140	1
AZ 86504	1
AZ 85650	1
AZ 85658	1
AZ 85308	1
AZ 85327	1
AZ 85710	1
AZ 85335	1
AZ 85205	1
AZ 85006	1
AZ 85338	1
AZ 85008	1
AZ 85340	1
AZ 85207	1
AZ 85012	1
AZ 85353	1
AZ 85365	1
AZ 85209	1
AZ 85013	1
AZ 85210	1
AZ 85015	1
AZ 85382	1
AZ 85212	1
AZ 85016	1
AZ 85385	1
AZ 85226	1

AZ	85020	1
AZ	85730	1
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TX	78232	1
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TX	77046	1
TX	76226	1
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VA	22043	7
VA	20147	7
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VA	22304	6
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VA	20176	4
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VA	22206	4
VA	23220	4
VA	22030	4
VA	22041	4
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VA	22204	3
VA	22205	3
VA	22207	3
VA	22209	3

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VA 20155	1
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VA 22152	1
VA 23324	1
VA 23002	1
VA 23336	1
VA 23005	1
VA 24060	1
VA 22180	1
VA 23356	1
VA 24064	1
VA 22181	1

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VA 20186	1
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VA 22485	1
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VA 22195	1
VA 20188	1
VA 22539	1
VA 24266	1
VA 23129	1
VA 22551	1
VA 20190	1
VA 23153	1
VA 24437	1
VA 23505	1
VA 20198	1
VA 24450	1
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VA 22026	1
VA 20117	1
VA 22656	1
VA 24551	1
VA 23604	1
VA 23222	1
VA 23223	1

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VA	22709	1
VA	23606	1
VA	22032	1
VA	22737	1
VA	23661	1
VA	20131	1
VT	5403	3
VT	5250	2
VT	5452	2
VT	5477	2
VT	5495	2
VT	5667	2
VT	5075	2
VT	5255	1
VT	5345	1
VT	5446	1
VT	5454	1
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VT	5468	1
VT	5482	1
VT	5491	1
VT	5602	1
VT	5647	1
VT	5658	1
VT	5663	1
VT	5672	1
VT	5748	1
VT	5761	1
VT	5828	1
VT	5846	1
VT	5851	1
VT	5030	1
VT	5201	1
WA	98103	9
WA	98225	7
WA	98102	7
WA	98118	7
WA	98122	7
WA	98033	6
WA	98115	6
WA	98045	6
WA	98052	6
WA	98199	6
WA	98074	6

WA 98106	5
WA 98110	5
WA 98072	5
WA 98101	4
WA 98034	4
WA 98109	4
WA 98038	4
WA 98112	4
WA 98040	4
WA 98370	4
WA 98121	4
WA 98019	3
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WA 98226	3
WA 98027	3
WA 98028	3
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WA 98105	3
WA 98274	3
WA 98108	3
WA 98117	3
WA 98685	3
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WA 98125	3
WA 98058	3
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WA 98502	3
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WA	99204	1
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WA	98029	1
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WA	98252	1
WA	99208	1
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WA	99218	1
WA	98632	1
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WA	98660	1
WA	99361	1
WA	98664	1
WA	98328	1
WA	99362	1
WA	98039	1
WA	98665	1
WA	98329	1
WA	N/A	1

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WA	98342	1
WA	98042	1
WA	98362	1
WA	98684	1
WA	98368	1
WA	98046	1
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WA	98404	1
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WA	98816	1
WA	98155	1
WA	98073	1
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WA	98409	1
WA	98847	1
WA	98444	1
WA	98901	1
WA	98198	1
WA	98903	1
WA	98007	1
WA	98501	1
WA	98908	1
WA	98201	1
WA	98937	1
WA	98506	1
WA	98203	1
WA	98941	1
WA	98512	1
WA	98221	1
WI	53213	5
WI	53711	4
WI	53718	4
WI	53515	4
WI	53593	2
WI	53704	2
WI	53202	2
WI	53207	2
WI	53211	2
WI	53212	2
WI	54701	2
WI	53224	2

WI 53228	2
WI 53017	2
WI 53033	2
WI 53072	2
WI 54481	2
WI 53562	2
WI 53132	2
WI 53154	2
WI 53589	2
WI 53590	2
WI 54610	1
WI 53188	1
WI 54624	1
WI 53703	1
WI 53190	1
WI 54629	1
WI 54636	1
WI 54650	1
WI 53713	1
WI 53208	1
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WI 53716	1
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WI 54853	1
WI 53217	1
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WI 54911	1
WI 53726	1
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WI 53024	1
WI 54915	1
WI 54022	1
WI 53403	1

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WI	54935	1
WI	54130	1
WI	53404	1
WI	53029	1
WI	54942	1
WI	54143	1
WI	53032	1
WI	54956	1
WI	54166	1
WI	53520	1
WI	54180	1
WI	53528	1
WI	53051	1
WI	54216	1
WI	54234	1
WI	53536	1
WI	53058	1
WI	54235	1
WI	53545	1
WI	54241	1
WI	53548	1
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WI	54313	1
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WI	53086	1
WI	54457	1
WI	53559	1
WI	53097	1
WI	54482	1
WI	53566	1
WI	53149	1
WI	54501	1
WI	53575	1
WI	54512	1
WI	53168	1
WI	54562	1
WI	53182	1
WV	26508	3
WV	25701	3
WV	25801	3
WV	26507	1
WV	26554	1
WV	25302	1
WV	25425	1
WV	25427	1
WV	25443	1

WV	25444	1
WV	25705	1
WV	26003	1
WV	26330	1
WV	26374	1
WV	26505	1
WY	82009	3
WY	82072	2
WY	83002	2
WY	82070	1
WY	82401	1
WY	82414	1
WY	82637	1
WY	82801	1
WY	83001	1
WY	83128	1

Question 7: Write a query that outputs the total number of unique User_Guids in each combination of State and ZIP code in the United States *that have at least 5 users*, sorted first by state name in ascending alphabetical order, and second by total number of unique User_Guids in descending order (your first state/ZIP code combination should be AZ/86303).

```
In [17]: %%sql
SELECT state,zip,COUNT(DISTINCT user_guid) AS Num_Users
FROM users
WHERE country="US"
GROUP BY state,zip
HAVING Num_Users>=5
ORDER BY state,Num_Users DESC;
```

```
* mysql://studentuser:***@localhost/dognitiondb  
285 rows affected.
```

Out[17]:

state	zip	Num_Users
AZ	86303	14
AZ	85718	6
AZ	85711	5
AZ	85749	5
AZ	85253	5
AZ	85254	5
AZ	85260	5
CA	92107	16
CA	90046	13
CA	92130	12
CA	94107	12
CA	92024	10
CA	94110	10
CA	94025	9
CA	94941	9
CA	94611	9
CA	94114	9
CA	92064	8
CA	90068	8
CA	90069	8
CA	94131	8
CA	90049	8
CA	94121	7
CA	90803	7
CA	94602	7
CA	93003	7
CA	90266	7
CA	90278	7
CA	90291	7
CA	90292	7
CA	94117	7
CA	94901	6
CA	94903	6
CA	94123	6
CA	92071	6
CA	91301	6
CA	94061	6
CA	94952	6
CA	94549	6
CA	92103	6
CA	95008	6
CA	95762	6
CA	90036	6
CA	95014	6
CA	90274	6

CA 90039	6
CA 90277	6
CA 92672	6
CA 94118	5
CA 94904	5
CA 90405	5
CA 94040	5
CA 94597	5
CA 93105	5
CA 90210	5
CA 92009	5
CA 92211	5
CA 92101	5
CA 90232	5
CA 94550	5
CA 92106	5
CA 90025	5
CA 95003	5
CA 95476	5
CA 93012	5
CA 94510	5
CA 93940	5
CA 94109	5
CA 92122	5
CA 95818	5
CA 94706	5
CA 91406	5
CA 93023	5
CO 80304	10
CO 80210	9
CO 80526	7
CO 80303	7
CO 80403	6
CO 80220	6
CO 80401	5
CO 80205	5
CO 80206	5
CO 80227	5
CO 80126	5
CT 6880	8
CT 6824	6
CT 6840	6
CT 6614	5
CT 6820	5
DC 20009	14
DC 20002	8
DC 20007	8

DC	20001	7
DC	20016	7
DC	20005	6
DC	20011	6
DC	20003	5
DE	19958	7
FL	33418	6
FL	32312	6
FL	33647	6
FL	32751	5
FL	32765	5
FL	33156	5
GA	30004	7
GA	30305	7
GA	30345	6
GA	30308	5
GA	30316	5
GA	30328	5
GA	30067	5
HI	96734	8
ID	83702	9
IL	60614	18
IL	60654	11
IL	60640	9
IL	60657	9
IL	60613	8
IL	60660	7
IL	60610	7
IL	60647	6
IL	60618	6
IL	60642	5
IL	60093	5
IL	60626	5
IN	47401	6
KS	66062	6
LA	70115	8
LA	70118	6
MA	2127	8
MA	2129	6
MA	2143	5
MA	2472	5
MA	2116	5
MA	2130	5
MA	2135	5
MD	20854	8
MD	20910	7
MD	20817	7

MD	20878	6
MD	21286	6
MD	21228	5
MD	21230	5
MD	20895	5
MD	20852	5
MI	48103	8
MN	55426	6
MO	63139	6
MO	63122	5
MT	59715	5
N/A	N/A	83
NC	27701	32
NC	27705	26
NC	27707	17
NC	27516	17
NC	27517	11
NC	27613	11
NC	27615	11
NC	27713	10
NC	27539	9
NC	27514	9
NC	27617	9
NC	27278	9
NC	27513	7
NC	27608	7
NC	27609	7
NC	27519	7
NC	27614	7
NC	28787	6
NC	27410	6
NC	28270	6
NC	27587	6
NC	27603	6
NC	27104	6
NC	27607	6
NC	28374	6
NC	27612	6
NC	28205	5
NC	28226	5
NC	27502	5
NC	27606	5
NJ	7030	8
NJ	7302	7
NJ	8540	5
NM	87111	6
NV	89511	5

NY	10003	14
NY	10023	13
NY	10024	13
NY	11201	12
NY	10025	12
NY	10028	11
NY	10016	10
NY	10011	9
NY	10019	9
NY	10014	8
NY	14850	8
NY	10021	8
NY	11238	8
NY	11249	7
NY	10128	6
NY	10012	6
NY	10013	6
NY	10583	6
NY	11217	6
NY	10075	5
NY	11105	5
NY	11209	5
NY	11211	5
NY	11215	5
NY	10022	5
NY	10708	5
NY	11222	5
OH	43214	8
OH	43068	5
OH	45243	5
OH	45040	5
OH	44149	5
OH	43235	5
OK	73013	5
OR	97229	8
OR	97212	7
OR	97405	5
OR	97206	5
OR	97215	5
OR	97702	5
PA	19147	6
PA	19087	6
PA	19460	6
PA	15101	5
PA	15237	5
SC	29303	14
SC	29464	13

SC	29707	5
SC	29205	5
SC	29407	5
TN	37205	7
TN	37027	6
TN	37067	6
TX	77008	8
TX	78745	8
TX	78750	8
TX	78703	7
TX	77007	7
TX	78704	6
TX	77584	6
TX	78757	6
TX	76712	5
TX	75248	5
TX	77006	5
TX	78613	5
TX	78748	5
TX	75023	5
TX	75025	5
TX	77381	5
TX	77382	5
TX	75219	5
UT	84098	6
VA	22201	9
VA	20191	9
VA	22314	8
VA	22043	7
VA	20147	7
VA	22903	7
VA	22101	6
VA	20120	6
VA	22304	6
VA	22902	5
VA	23462	5
VA	22301	5
WA	98103	9
WA	98225	7
WA	98102	7
WA	98118	7
WA	98122	7
WA	98033	6
WA	98115	6
WA	98045	6
WA	98052	6
WA	98199	6

WA	98074	6
WA	98106	5
WA	98110	5
WA	98072	5
WI	53213	5

****Be sure to watch the next video before beginning Exercise 6, the next set of MySQL exercises , and feel free to practice any other queries you wish below!****

In []: