

# Statistical analysis and Data-mining using SQL

## Sample 1 - Total Records

[View Query](#)
[View Output](#)

```
SELECT COUNT(*) AS total_records FROM Dataset;
```

total_records
200

## Sample 2 - Avg Value by Category

[View Query](#)
[View Output](#)

```
SELECT category, AVG(value) AS average_value FROM Dataset GROUP BY category;
```

category	average_value
Finance	4758.310681818182
Sales	5795.600212765957
Support	4589.941000000001
Logistics	5103.56
Marketing	5286.146190476189

## Sample 3 - High Value Records

[View Query](#)
[View Output](#)

```
SELECT * FROM Dataset WHERE value > 8000;
```

record_id	category	value	timestamp	label
16	Finance	9187.98	Fri, 31 Jan 2025 15:54:23 GMT	High
34	Sales	9834.19	Fri, 25 Apr 2025 07:04:11 GMT	Critical
39	Sales	8732.79	Sun, 18 May 2025 09:30:03 GMT	High
45	Logistics	8076.85	Tue, 04 Feb 2025 03:10:34 GMT	Low
48	Finance	8314.6	Sun, 09 Feb 2025 19:38:08 GMT	Medium

57	Marketing	9419.14	Mon, 24 Mar 2025 08:28:43 GMT	Medium
67	Marketing	9867.38	Mon, 30 Jun 2025 15:00:58 GMT	Low
75	Sales	8174.91	Thu, 20 Mar 2025 01:03:32 GMT	Low
78	Sales	8532.61	Mon, 16 Jun 2025 16:46:04 GMT	Medium
81	Sales	8181.32	Mon, 05 May 2025 09:00:00 GMT	Low
83	Sales	8355.31	Tue, 25 Mar 2025 15:30:02 GMT	Critical
84	Support	8791.75	Wed, 05 Mar 2025 21:48:17 GMT	High
85	Logistics	8980.36	Thu, 13 Feb 2025 21:10:51 GMT	Medium
87	Finance	8934.77	Mon, 17 Mar 2025 16:40:37 GMT	Critical
89	Sales	8171.59	Tue, 03 Jun 2025 20:55:15 GMT	Low
91	Sales	9787.86	Sun, 27 Jul 2025 15:51:15 GMT	High
92	Marketing	8859.55	Tue, 11 Mar 2025 01:05:39 GMT	High
93	Logistics	9744.84	Mon, 14 Jul 2025 10:01:55 GMT	Medium
99	Marketing	8458.97	Mon, 28 Jul 2025 17:10:37 GMT	High
102	Support	9472.92	Thu, 29 May 2025 07:28:09 GMT	Critical
104	Finance	8540.61	Tue, 18 Mar 2025 03:37:22 GMT	High
113	Marketing	9000.04	Sun, 22 Jun 2025 10:29:12 GMT	Critical
115	Marketing	9656.51	Mon, 07 Jul 2025 16:28:19 GMT	Critical
117	Marketing	9139.31	Tue, 01 Apr 2025 10:43:11 GMT	Critical
118	Sales	9893.57	Sun, 16 Mar 2025 23:36:49 GMT	High
127	Finance	9419.55	Sat, 01 Mar 2025 12:29:48 GMT	Medium
136	Finance	8433.71	Wed, 19 Mar 2025 10:39:01 GMT	High
137	Marketing	9472.31	Sat, 19 Apr 2025 03:29:19 GMT	High
140	Logistics	9751.31	Tue, 03 Jun 2025 21:48:36 GMT	Low
145	Sales	8963.81	Thu, 10 Jul 2025 21:15:42 GMT	Medium
148	Marketing	9030.33	Wed, 14 May 2025 05:10:09 GMT	Medium
155	Sales	8993.05	Wed, 30 Jul 2025 09:40:13 GMT	High
157	Finance	9116.14	Wed, 30 Apr 2025 12:42:27 GMT	Critical
161	Marketing	9900.14	Tue, 29 Apr 2025 10:28:48 GMT	Low
178	Marketing	9703.21	Tue, 18 Mar 2025 15:11:07 GMT	Medium
179	Marketing	8268.68	Fri, 28 Feb 2025 04:57:00 GMT	Low
185	Logistics	8974.7	Thu, 24 Apr 2025 20:11:20 GMT	Medium
190	Sales	9977.7	Fri, 02 May 2025 08:50:00 GMT	Medium

195	Logistics	9944.8	Sun, 30 Mar 2025 15:18:46 GMT	Low
197	Finance	8251.06	Fri, 28 Mar 2025 13:47:21 GMT	High

## Sample 4 - All Analysts

[View Query](#)
[View Output](#)

```
SELECT * FROM Users WHERE role = 'Analyst';
```

user_id	name	role
4	Daniel Peters	Analyst
7	Michelle Roberts	Analyst
9	Carrie Turner	Analyst
10	Tracy King	Analyst
11	Dylan Moore	Analyst
17	Sean Davis	Analyst
24	Ryan Turner	Analyst
27	April Steele	Analyst
28	Michelle Huffman	Analyst
30	Henry Perry	Analyst
31	Amanda Williams	Analyst
32	Christine Torres	Analyst
34	Norman Mendoza	Analyst
35	Kelly Pineda	Analyst
36	Alyssa Butler	Analyst
38	Nancy Hoffman	Analyst
39	Gary Peters	Analyst
40	Timothy Moody PhD	Analyst
44	Shannon Bernard	Analyst
45	Laurie Johnson	Analyst
47	Jennifer Taylor	Analyst
49	Victoria Lowe	Analyst
51	Destiny Pena	Analyst
53	Mrs. Laurie Kramer	Analyst

54	Heather Jones	Analyst
55	Megan Johnson	Analyst
57	Garrett Williams	Analyst
58	Kathleen Hutchinson	Analyst
59	Alexander Gibson	Analyst
60	Brianna Guerra	Analyst
62	Corey Woodard	Analyst
65	Samantha Payne	Analyst
67	Rebekah Le	Analyst
68	Mr. Raymond Melton	Analyst
70	Karen Livingston	Analyst
71	Leslie Jones	Analyst
72	Jennifer Johnston	Analyst
73	Craig Lopez	Analyst
74	Regina Williams	Analyst
80	John Doyle	Analyst
81	Kyle Carroll	Analyst
87	Maureen Hanson	Analyst
90	Steven White	Analyst
93	Paul Russo	Analyst
96	Daniel Jackson	Analyst
97	Tammy Gonzalez	Analyst
99	Jennifer Ortiz	Analyst
100	Michael Silva	Analyst
101	Robin Cherry	Analyst
103	Lauren Chung	Analyst
106	Andrew Rangel	Analyst
107	Carla Juarez	Analyst
112	Blake Schultz	Analyst
118	David Zavala	Analyst
123	Mr. Daniel Lee	Analyst
127	Patricia Howard	Analyst
128	Johnathan Salas	Analyst

130	Matthew Owens	Analyst
131	Tiffany King	Analyst
133	Mark Perry	Analyst
134	Christine Goodwin	Analyst
135	Nicole Carlson	Analyst
136	Keith Hernandez	Analyst
137	Stephen Marks	Analyst
139	Whitney Murphy	Analyst
144	Latoya Golden	Analyst
145	Brandon Watkins	Analyst
147	Nicholas Gregory	Analyst
150	Julian Parsons	Analyst
151	Alyssa Pennington	Analyst
153	Kathleen Walters	Analyst
157	Tina Harper	Analyst
160	Ashley Dickson	Analyst
161	Chloe Allen	Analyst
164	Kevin Wade	Analyst
166	Jacob OConnor	Analyst
167	Jasmine Chandler	Analyst
169	Dave Chavez	Analyst
171	Trevor Carroll	Analyst
172	Terry Stewart	Analyst
177	David Evans	Analyst
181	Kimberly Rogers	Analyst
184	Brooke Miller	Analyst
186	Danielle Parks	Analyst
187	Barbara Mueller	Analyst
188	Andrew Carter	Analyst
189	Sarah Carrillo	Analyst
193	Daniel Savage	Analyst
195	Seth Phillips	Analyst
196	Tabitha Bennett	Analyst

198	Thomas Hobbs	Analyst
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## Sample 5 - Logs of User 5

[View Query](#)
[View Output](#)

```
SELECT * FROM analysis_logs WHERE user_id = 5;
```

log_id	user_id	operation	log_time
123	5	Label Distribution	Mon, 21 Jul 2025 15:56:47 GMT
161	5	Outlier Detection	Sat, 26 Jul 2025 19:49:40 GMT

## Sample 6 - Daily Average Value

[View Query](#)
[View Output](#)

```
SELECT date_trunc('day', timestamp) AS day, AVG(value) AS avg_value FROM Dataset GROUP BY day ORDER BY day;
```

day	avg_value
Thu, 30 Jan 2025 00:00:00 GMT	3057.5475
Fri, 31 Jan 2025 00:00:00 GMT	6468.826666666667
Sat, 01 Feb 2025 00:00:00 GMT	1037.01
Sun, 02 Feb 2025 00:00:00 GMT	6411.6
Tue, 04 Feb 2025 00:00:00 GMT	7774.22
Fri, 07 Feb 2025 00:00:00 GMT	5243.36
Sat, 08 Feb 2025 00:00:00 GMT	7716.38
Sun, 09 Feb 2025 00:00:00 GMT	4256.385
Mon, 10 Feb 2025 00:00:00 GMT	3175.29
Tue, 11 Feb 2025 00:00:00 GMT	2318.45
Wed, 12 Feb 2025 00:00:00 GMT	2686.05
Thu, 13 Feb 2025 00:00:00 GMT	6352.815000000005
Fri, 14 Feb 2025 00:00:00 GMT	4217.973333333333
Sun, 16 Feb 2025 00:00:00 GMT	1888.550000000002
Mon, 17 Feb 2025 00:00:00 GMT	6521.81
Thu, 20 Feb 2025 00:00:00 GMT	4714.055

Fri, 21 Feb 2025 00:00:00 GMT	2798
Sun, 23 Feb 2025 00:00:00 GMT	4189.82
Tue, 25 Feb 2025 00:00:00 GMT	5271.83
Wed, 26 Feb 2025 00:00:00 GMT	7384.275
Fri, 28 Feb 2025 00:00:00 GMT	8268.68
Sat, 01 Mar 2025 00:00:00 GMT	9419.55
Sun, 02 Mar 2025 00:00:00 GMT	7192.32
Mon, 03 Mar 2025 00:00:00 GMT	378.46
Wed, 05 Mar 2025 00:00:00 GMT	7479.3150000000005
Thu, 06 Mar 2025 00:00:00 GMT	7362.235000000001
Mon, 10 Mar 2025 00:00:00 GMT	1056.23
Tue, 11 Mar 2025 00:00:00 GMT	8859.55
Thu, 13 Mar 2025 00:00:00 GMT	5548.08
Fri, 14 Mar 2025 00:00:00 GMT	7335.21
Sat, 15 Mar 2025 00:00:00 GMT	2857.17
Sun, 16 Mar 2025 00:00:00 GMT	4683.68
Mon, 17 Mar 2025 00:00:00 GMT	8934.77
Tue, 18 Mar 2025 00:00:00 GMT	6141.04
Wed, 19 Mar 2025 00:00:00 GMT	6106.129999999999
Thu, 20 Mar 2025 00:00:00 GMT	4260.3525
Sat, 22 Mar 2025 00:00:00 GMT	5743.94
Mon, 24 Mar 2025 00:00:00 GMT	7086.705
Tue, 25 Mar 2025 00:00:00 GMT	6184.33
Wed, 26 Mar 2025 00:00:00 GMT	2717.53
Thu, 27 Mar 2025 00:00:00 GMT	3780.18
Fri, 28 Mar 2025 00:00:00 GMT	7068.639999999999
Sun, 30 Mar 2025 00:00:00 GMT	5626.79
Mon, 31 Mar 2025 00:00:00 GMT	1747.41
Tue, 01 Apr 2025 00:00:00 GMT	8354.09
Wed, 02 Apr 2025 00:00:00 GMT	3316.895
Sun, 06 Apr 2025 00:00:00 GMT	4418.849999999999
Mon, 07 Apr 2025 00:00:00 GMT	7975.98
Tue, 08 Apr 2025 00:00:00 GMT	4649.39

Wed, 09 Apr 2025 00:00:00 GMT	4211.97666666666665
Sat, 12 Apr 2025 00:00:00 GMT	7758.13
Tue, 15 Apr 2025 00:00:00 GMT	1462.125
Sat, 19 Apr 2025 00:00:00 GMT	7578.045
Wed, 23 Apr 2025 00:00:00 GMT	4543.17
Thu, 24 Apr 2025 00:00:00 GMT	4647.903333333333
Fri, 25 Apr 2025 00:00:00 GMT	9834.19
Sat, 26 Apr 2025 00:00:00 GMT	5097.91
Sun, 27 Apr 2025 00:00:00 GMT	5121.385
Tue, 29 Apr 2025 00:00:00 GMT	5552.3099999999995
Wed, 30 Apr 2025 00:00:00 GMT	9116.14
Thu, 01 May 2025 00:00:00 GMT	3438.09
Fri, 02 May 2025 00:00:00 GMT	5962.6466666666665
Sun, 04 May 2025 00:00:00 GMT	3638.433333333333
Mon, 05 May 2025 00:00:00 GMT	8181.32
Tue, 06 May 2025 00:00:00 GMT	6056.34
Thu, 08 May 2025 00:00:00 GMT	6622.37
Fri, 09 May 2025 00:00:00 GMT	4407.3766666666667
Sat, 10 May 2025 00:00:00 GMT	4559.29
Sun, 11 May 2025 00:00:00 GMT	3872.105
Wed, 14 May 2025 00:00:00 GMT	9030.33
Thu, 15 May 2025 00:00:00 GMT	3784.83
Fri, 16 May 2025 00:00:00 GMT	5737.514999999999
Sat, 17 May 2025 00:00:00 GMT	3052.85
Sun, 18 May 2025 00:00:00 GMT	5450.797500000001
Thu, 22 May 2025 00:00:00 GMT	6561.215
Sat, 24 May 2025 00:00:00 GMT	7766.01
Mon, 26 May 2025 00:00:00 GMT	3022.51
Thu, 29 May 2025 00:00:00 GMT	5485.849999999999
Sat, 31 May 2025 00:00:00 GMT	7235.98
Sun, 01 Jun 2025 00:00:00 GMT	2305.69
Tue, 03 Jun 2025 00:00:00 GMT	8961.45
Thu, 05 Jun 2025 00:00:00 GMT	5057.515

Sat, 07 Jun 2025 00:00:00 GMT	3000.115
Sun, 08 Jun 2025 00:00:00 GMT	2806.87
Mon, 09 Jun 2025 00:00:00 GMT	1118.16
Tue, 10 Jun 2025 00:00:00 GMT	2618.69
Sat, 14 Jun 2025 00:00:00 GMT	4272.79
Sun, 15 Jun 2025 00:00:00 GMT	3254.09
Mon, 16 Jun 2025 00:00:00 GMT	8532.61
Tue, 17 Jun 2025 00:00:00 GMT	2950.95
Wed, 18 Jun 2025 00:00:00 GMT	579.85
Fri, 20 Jun 2025 00:00:00 GMT	4395.555
Sat, 21 Jun 2025 00:00:00 GMT	2227.22
Sun, 22 Jun 2025 00:00:00 GMT	8451.795
Wed, 25 Jun 2025 00:00:00 GMT	3569.8650000000002
Sat, 28 Jun 2025 00:00:00 GMT	5888.389999999999
Sun, 29 Jun 2025 00:00:00 GMT	4154.54
Mon, 30 Jun 2025 00:00:00 GMT	6235.2
Thu, 03 Jul 2025 00:00:00 GMT	5053.97
Sat, 05 Jul 2025 00:00:00 GMT	5494.96
Sun, 06 Jul 2025 00:00:00 GMT	1603.85
Mon, 07 Jul 2025 00:00:00 GMT	9656.51
Wed, 09 Jul 2025 00:00:00 GMT	2367.07
Thu, 10 Jul 2025 00:00:00 GMT	6425.75
Sat, 12 Jul 2025 00:00:00 GMT	1819.58
Sun, 13 Jul 2025 00:00:00 GMT	7040.39
Mon, 14 Jul 2025 00:00:00 GMT	7767.225
Tue, 15 Jul 2025 00:00:00 GMT	5804.05
Thu, 17 Jul 2025 00:00:00 GMT	4726.8
Fri, 18 Jul 2025 00:00:00 GMT	1952.85
Sat, 19 Jul 2025 00:00:00 GMT	2829.775
Sun, 20 Jul 2025 00:00:00 GMT	2188.665
Mon, 21 Jul 2025 00:00:00 GMT	4499.35
Tue, 22 Jul 2025 00:00:00 GMT	6167.4400000000005
Thu, 24 Jul 2025 00:00:00 GMT	4392.49

Sat, 26 Jul 2025 00:00:00 GMT	7000.49
Sun, 27 Jul 2025 00:00:00 GMT	9787.86
Mon, 28 Jul 2025 00:00:00 GMT	6826.575
Wed, 30 Jul 2025 00:00:00 GMT	8993.05

## Sample 7 - Categories with >30 Records

[View Query](#)
[View Output](#)

```
SELECT category, COUNT(*) AS record_count FROM Dataset GROUP BY category HAVING COUNT(*) > 30;
```

category	record_count
Finance	44
Sales	47
Logistics	37
Marketing	42

## Sample 8 - Top 3 Frequent Labels

[View Query](#)
[View Output](#)

```
SELECT label, COUNT(*) AS freq FROM Dataset GROUP BY label ORDER BY freq DESC LIMIT 3;
```

label	freq
Low	61
Medium	49
High	48

## Sample 9 - Top 5 by Category

[View Query](#)
[View Output](#)

```
SELECT * FROM (
    SELECT *, RANK() OVER (PARTITION BY category ORDER BY value DESC) AS rnk FROM Dataset
) ranked WHERE rnk <= 5;
```

record_id	category	value	timestamp	label	rnk
127	Finance	9419.55	Sat, 01 Mar 2025 12:29:48 GMT	Medium	1
16	Finance	9187.98	Fri, 31 Jan 2025 15:54:23 GMT	High	2
157	Finance	9116.14	Wed, 30 Apr 2025 12:42:27 GMT	Critical	3
87	Finance	8934.77	Mon, 17 Mar 2025 16:40:37 GMT	Critical	4
104	Finance	8540.61	Tue, 18 Mar 2025 03:37:22 GMT	High	5
195	Logistics	9944.8	Sun, 30 Mar 2025 15:18:46 GMT	Low	1
140	Logistics	9751.31	Tue, 03 Jun 2025 21:48:36 GMT	Low	2
93	Logistics	9744.84	Mon, 14 Jul 2025 10:01:55 GMT	Medium	3
85	Logistics	8980.36	Thu, 13 Feb 2025 21:10:51 GMT	Medium	4
185	Logistics	8974.7	Thu, 24 Apr 2025 20:11:20 GMT	Medium	5
161	Marketing	9900.14	Tue, 29 Apr 2025 10:28:48 GMT	Low	1
67	Marketing	9867.38	Mon, 30 Jun 2025 15:00:58 GMT	Low	2
178	Marketing	9703.21	Tue, 18 Mar 2025 15:11:07 GMT	Medium	3
115	Marketing	9656.51	Mon, 07 Jul 2025 16:28:19 GMT	Critical	4
137	Marketing	9472.31	Sat, 19 Apr 2025 03:29:19 GMT	High	5
190	Sales	9977.7	Fri, 02 May 2025 08:50:00 GMT	Medium	1
118	Sales	9893.57	Sun, 16 Mar 2025 23:36:49 GMT	High	2
34	Sales	9834.19	Fri, 25 Apr 2025 07:04:11 GMT	Critical	3
91	Sales	9787.86	Sun, 27 Jul 2025 15:51:15 GMT	High	4
155	Sales	8993.05	Wed, 30 Jul 2025 09:40:13 GMT	High	5
102	Support	9472.92	Thu, 29 May 2025 07:28:09 GMT	Critical	1
84	Support	8791.75	Wed, 05 Mar 2025 21:48:17 GMT	High	2
123	Support	7903.55	Sun, 22 Jun 2025 06:08:56 GMT	Medium	3
183	Support	7793.53	Mon, 30 Jun 2025 19:40:57 GMT	Medium	4
58	Support	7744.79	Thu, 06 Mar 2025 19:00:48 GMT	Low	5

## Sample 10 - Mean by Label

[View Query](#)
[View Output](#)

```
SELECT label, AVG(value) AS mean_value FROM Dataset GROUP BY label ORDER BY mean_value DESC;
```

label	mean_value
-------	------------

High	5356.5000000000001
Low	5197.478196721311
Medium	5123.160204081632
Critical	4883.6654761904765

## Sample 11 - Min/Max Timestamp

[View Query](#)
[View Output](#)

```
SELECT MIN(timestamp) AS earliest, MAX(timestamp) AS latest FROM Dataset;
```

earliest	latest
Thu, 30 Jan 2025 07:28:39 GMT	Wed, 30 Jul 2025 09:40:13 GMT

## Sample 12 - Logs with User Names

[View Query](#)
[View Output](#)

```
SELECT a.log_id, u.name, u.role, a.operation, a.log_time
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
ORDER BY a.log_time DESC;
```

log_id	name	role	operation	log_time
15	Norma Sanchez	Admin	Average Value Computation	Wed, 30 Jul 2025 20:01:14 GMT
193	Timothy Moody PhD	Analyst	Average Value Computation	Wed, 30 Jul 2025 06:57:55 GMT
14	Lucas Nelson	Admin	Average Value Computation	Tue, 29 Jul 2025 23:17:06 GMT
44	Leslie Jones	Analyst	Category Summary	Mon, 28 Jul 2025 21:41:49 GMT
58	Robin Cherry	Analyst	Trend Analysis	Mon, 28 Jul 2025 12:42:15 GMT
106	Sean Davis	Analyst	Label Distribution	Sun, 27 Jul 2025 03:59:07 GMT
161	Jared Richards	Admin	Outlier Detection	Sat, 26 Jul 2025 19:49:40 GMT
186	Autumn White	Admin	Label Distribution	Sat, 26 Jul 2025 14:58:28 GMT
83	David Morrison	Admin	Trend Analysis	Fri, 25 Jul 2025 18:08:45 GMT

67	Daniel Jackson	Analyst	Trend Analysis	Fri, 25 Jul 2025 12:28:18 GMT
147	Karen Livingston	Analyst	Average Value Computation	Fri, 25 Jul 2025 05:12:32 GMT
5	Lauren Chung	Analyst	Average Value Computation	Fri, 25 Jul 2025 03:20:43 GMT
151	Jasmine Chandler	Analyst	Outlier Detection	Fri, 25 Jul 2025 01:02:37 GMT
96	Allison Williams	Admin	Label Distribution	Thu, 24 Jul 2025 12:36:14 GMT
112	Ryan Chavez	Admin	Average Value Computation	Thu, 24 Jul 2025 10:25:45 GMT
108	Jacob Swanson	Admin	Trend Analysis	Thu, 24 Jul 2025 00:51:13 GMT
124	Brooke Miller	Analyst	Average Value Computation	Wed, 23 Jul 2025 17:04:24 GMT
23	Jacob Swanson	Admin	Category Summary	Wed, 23 Jul 2025 16:48:16 GMT
183	Mrs. Laurie Kramer	Analyst	Trend Analysis	Wed, 23 Jul 2025 10:48:41 GMT
134	Kari Crawford	Admin	Category Summary	Wed, 23 Jul 2025 10:00:05 GMT
174	Pamela Rasmussen	Admin	Category Summary	Wed, 23 Jul 2025 06:53:26 GMT
143	Gabriella Daugherty	Admin	Label Distribution	Wed, 23 Jul 2025 04:38:02 GMT
57	Paige Brown	Admin	Label Distribution	Tue, 22 Jul 2025 00:35:49 GMT
33	Jennifer Ortiz	Analyst	Average Value Computation	Mon, 21 Jul 2025 23:44:14 GMT
137	Norma Sanchez	Admin	Label Distribution	Mon, 21 Jul 2025 22:01:32 GMT
123	Jared Richards	Admin	Label Distribution	Mon, 21 Jul 2025 15:56:47 GMT
129	Jennifer Taylor	Analyst	Average Value Computation	Mon, 21 Jul 2025 12:14:02 GMT
53	Trevor Carroll	Analyst	Category Summary	Sun, 20 Jul 2025 16:08:33 GMT
94	Michelle Roberts	Analyst	Trend Analysis	Sun, 20 Jul 2025 12:53:20 GMT
133	Jennifer Williamson	Admin	Category Summary	Sat, 19 Jul 2025 13:48:10 GMT
138	Latoya Golden	Analyst	Average Value Computation	Sat, 19 Jul 2025 00:07:13 GMT
146	Monica Martin	Admin	Label Distribution	Fri, 18 Jul 2025 11:54:45 GMT

105	Monica Martin	Admin	Average Value Computation	Thu, 17 Jul 2025 12:22:14 GMT
85	Victoria Lowe	Analyst	Category Summary	Thu, 17 Jul 2025 00:06:39 GMT
42	Lori Stewart	Admin	Category Summary	Wed, 16 Jul 2025 01:34:58 GMT
92	Stephanie Jones	Admin	Category Summary	Tue, 15 Jul 2025 17:29:53 GMT
20	Erin Marquez	Admin	Average Value Computation	Tue, 15 Jul 2025 14:48:25 GMT
98	Amy Burgess	Admin	Trend Analysis	Tue, 15 Jul 2025 05:09:32 GMT
156	Sarah Jackson	Admin	Outlier Detection	Mon, 14 Jul 2025 12:58:23 GMT
127	Daniel Thomas	Admin	Average Value Computation	Sun, 13 Jul 2025 16:17:21 GMT
64	Trevor Carroll	Analyst	Trend Analysis	Sat, 12 Jul 2025 20:26:17 GMT
173	Kyle Carroll	Analyst	Category Summary	Fri, 11 Jul 2025 06:15:09 GMT
90	Henry Perry	Analyst	Label Distribution	Thu, 10 Jul 2025 18:10:53 GMT
168	Autumn White	Admin	Label Distribution	Thu, 10 Jul 2025 17:30:21 GMT
118	Megan Johnson	Analyst	Label Distribution	Thu, 10 Jul 2025 15:18:05 GMT
61	Trevor Carroll	Analyst	Label Distribution	Wed, 09 Jul 2025 20:48:17 GMT
142	Keith Hernandez	Analyst	Category Summary	Wed, 09 Jul 2025 10:36:30 GMT
73	Sarah Jackson	Admin	Label Distribution	Wed, 09 Jul 2025 08:45:22 GMT
109	Maria Schaefer	Admin	Category Summary	Wed, 09 Jul 2025 05:19:33 GMT
196	Trevor Carroll	Analyst	Label Distribution	Tue, 08 Jul 2025 11:02:39 GMT
189	Scott French	Admin	Average Value Computation	Tue, 08 Jul 2025 02:38:25 GMT
26	Dave Chavez	Analyst	Category Summary	Mon, 07 Jul 2025 17:47:35 GMT
110	Sandra Austin	Admin	Category Summary	Mon, 07 Jul 2025 05:10:52 GMT
71	Lori Stewart	Admin	Trend Analysis	Sun, 06 Jul 2025 13:08:56 GMT

38	Regina Williams	Analyst	Average Value Computation	Sun, 06 Jul 2025 11:12:50 GMT
200	Ronald Berg	Admin	Average Value Computation	Sun, 06 Jul 2025 08:57:55 GMT
16	Brett Keller	Admin	Label Distribution	Sat, 05 Jul 2025 20:52:43 GMT
195	Isaac Mckenzie	Admin	Average Value Computation	Sat, 05 Jul 2025 11:40:25 GMT
3	Latoya Golden	Analyst	Outlier Detection	Fri, 04 Jul 2025 10:52:28 GMT
145	Tyler Smith	Admin	Label Distribution	Fri, 04 Jul 2025 08:41:54 GMT
95	Jessica Hayes	Admin	Average Value Computation	Fri, 04 Jul 2025 04:00:51 GMT
2	Kevin Perry	Admin	Trend Analysis	Thu, 03 Jul 2025 16:38:23 GMT
116	Holly Pennington	Admin	Trend Analysis	Wed, 02 Jul 2025 19:26:50 GMT
77	Patricia Weaver	Admin	Trend Analysis	Wed, 02 Jul 2025 08:47:32 GMT
126	Amanda Smith	Admin	Label Distribution	Tue, 01 Jul 2025 19:47:46 GMT
144	Allison Williams	Admin	Outlier Detection	Tue, 01 Jul 2025 19:39:30 GMT
154	Maria Schaefer	Admin	Outlier Detection	Tue, 01 Jul 2025 12:44:08 GMT
149	Jessica Hayes	Admin	Trend Analysis	Tue, 01 Jul 2025 10:27:30 GMT
164	Sandra Austin	Admin	Label Distribution	Tue, 01 Jul 2025 07:17:20 GMT
87	Craig Lopez	Analyst	Average Value Computation	Sun, 29 Jun 2025 03:34:02 GMT
99	Paula Leonard	Admin	Trend Analysis	Sat, 28 Jun 2025 23:45:37 GMT
188	Stephanie Jones	Admin	Average Value Computation	Sat, 28 Jun 2025 21:15:52 GMT
107	Heather Jones	Analyst	Trend Analysis	Sat, 28 Jun 2025 06:00:05 GMT
41	Brandon Watkins	Analyst	Average Value Computation	Sat, 28 Jun 2025 04:15:50 GMT
7	Amanda Smith	Admin	Trend Analysis	Fri, 27 Jun 2025 10:51:08 GMT
111	Laura Nelson	Admin	Outlier Detection	Fri, 27 Jun 2025 08:02:18 GMT
86	Sandra Austin	Admin	Trend Analysis	Thu, 26 Jun 2025 11:32:19 GMT

35	Sylvia Anderson	Admin	Label Distribution	Thu, 26 Jun 2025 09:47:28 GMT
28	Michelle Roberts	Analyst	Trend Analysis	Thu, 26 Jun 2025 02:13:46 GMT
70	Sandra Austin	Admin	Category Summary	Wed, 25 Jun 2025 11:54:16 GMT
11	Patricia Weaver	Admin	Outlier Detection	Wed, 25 Jun 2025 08:14:34 GMT
158	Nicole Carlson	Analyst	Average Value Computation	Tue, 24 Jun 2025 16:57:17 GMT
25	Chloe Allen	Analyst	Outlier Detection	Tue, 24 Jun 2025 11:50:06 GMT
43	Sarah Jackson	Admin	Category Summary	Mon, 23 Jun 2025 01:30:16 GMT
56	Matthew Owens	Analyst	Category Summary	Sun, 22 Jun 2025 17:52:11 GMT
8	Nancy Hoffman	Analyst	Average Value Computation	Sun, 22 Jun 2025 11:18:25 GMT
10	David Evans	Analyst	Trend Analysis	Sun, 22 Jun 2025 10:20:30 GMT
80	Samantha Payne	Analyst	Label Distribution	Sat, 21 Jun 2025 11:19:03 GMT
78	Hannah Allen	Admin	Category Summary	Sat, 21 Jun 2025 04:18:46 GMT
34	Latoya Golden	Analyst	Category Summary	Fri, 20 Jun 2025 15:57:49 GMT
52	Paige Brown	Admin	Average Value Computation	Thu, 19 Jun 2025 23:21:41 GMT
55	Shannon Bernard	Analyst	Category Summary	Thu, 19 Jun 2025 20:39:10 GMT
194	Melissa Spence	Admin	Average Value Computation	Thu, 19 Jun 2025 17:57:32 GMT
65	Brianna Guerra	Analyst	Label Distribution	Thu, 19 Jun 2025 14:39:03 GMT
152	Laurie Johnson	Analyst	Average Value Computation	Wed, 18 Jun 2025 23:39:15 GMT
135	Jerry Pierce	Admin	Outlier Detection	Wed, 18 Jun 2025 22:26:52 GMT
153	Patricia Weaver	Admin	Outlier Detection	Wed, 18 Jun 2025 20:56:34 GMT
192	Victoria Lowe	Analyst	Outlier Detection	Wed, 18 Jun 2025 20:56:07 GMT
21	Tyler Smith	Admin	Average Value Computation	Wed, 18 Jun 2025 20:29:00 GMT

175	Ronald Berg	Admin	Label Distribution	Wed, 18 Jun 2025 18:59:36 GMT
79	Steven White	Analyst	Average Value Computation	Wed, 18 Jun 2025 09:56:48 GMT
1	Chloe Allen	Analyst	Category Summary	Tue, 17 Jun 2025 19:11:10 GMT
31	Christine Torres	Analyst	Average Value Computation	Tue, 17 Jun 2025 10:56:30 GMT
131	Matthew Smith	Admin	Label Distribution	Mon, 16 Jun 2025 09:26:45 GMT
32	Alexander Gibson	Analyst	Category Summary	Mon, 16 Jun 2025 01:09:43 GMT
132	Jessica Newman	Admin	Category Summary	Sun, 15 Jun 2025 15:28:42 GMT
160	Kevin Perry	Admin	Average Value Computation	Sun, 15 Jun 2025 12:36:25 GMT
69	Rebekah Le	Analyst	Average Value Computation	Sun, 15 Jun 2025 11:57:54 GMT
82	Alyssa Pennington	Analyst	Outlier Detection	Sun, 15 Jun 2025 00:00:25 GMT
29	Autumn White	Admin	Label Distribution	Sat, 14 Jun 2025 13:16:04 GMT
48	Tiffany King	Analyst	Outlier Detection	Sat, 14 Jun 2025 08:43:26 GMT
100	Mr. Raymond Melton	Analyst	Trend Analysis	Sat, 14 Jun 2025 03:09:08 GMT
122	Gabriella Daugherty	Admin	Category Summary	Sat, 14 Jun 2025 01:55:01 GMT
36	Jacob Oconnor	Analyst	Label Distribution	Fri, 13 Jun 2025 14:28:21 GMT
177	David Evans	Analyst	Outlier Detection	Thu, 12 Jun 2025 22:14:55 GMT
84	Matthew Owens	Analyst	Label Distribution	Thu, 12 Jun 2025 21:42:05 GMT
187	Gabriella Daugherty	Admin	Outlier Detection	Thu, 12 Jun 2025 17:48:59 GMT
165	Alison Herrera	Admin	Outlier Detection	Thu, 12 Jun 2025 11:49:57 GMT
54	Alisha Garrison	Admin	Trend Analysis	Thu, 12 Jun 2025 11:42:32 GMT
128	Emma Barry	Admin	Trend Analysis	Wed, 11 Jun 2025 13:55:59 GMT
104	Laura Nelson	Admin	Outlier Detection	Wed, 11 Jun 2025 11:14:21 GMT

81	April Steele	Analyst	Outlier Detection	Tue, 10 Jun 2025 15:53:30 GMT
114	Trevor Carroll	Analyst	Category Summary	Tue, 10 Jun 2025 10:34:52 GMT
185	Susan Hatfield	Admin	Trend Analysis	Tue, 10 Jun 2025 06:52:51 GMT
9	Samantha Carpenter	Admin	Trend Analysis	Tue, 10 Jun 2025 06:41:37 GMT
190	Latoya Golden	Analyst	Label Distribution	Tue, 10 Jun 2025 02:00:37 GMT
159	Steven White	Analyst	Trend Analysis	Mon, 09 Jun 2025 22:35:39 GMT
121	Anthony Brown	Admin	Trend Analysis	Sat, 07 Jun 2025 18:54:12 GMT
37	Dylan Moore	Analyst	Average Value Computation	Fri, 06 Jun 2025 22:02:04 GMT
180	Gary Hunter	Admin	Trend Analysis	Fri, 06 Jun 2025 09:22:16 GMT
97	Leah Holmes	Admin	Category Summary	Fri, 06 Jun 2025 08:30:48 GMT
4	Tammie Cruz	Admin	Category Summary	Thu, 05 Jun 2025 23:16:11 GMT
172	Jennifer Ramirez	Admin	Category Summary	Wed, 04 Jun 2025 14:10:35 GMT
178	Maria Schaefer	Admin	Trend Analysis	Wed, 04 Jun 2025 09:18:19 GMT
103	Gabriella Daugherty	Admin	Label Distribution	Wed, 04 Jun 2025 02:47:07 GMT
170	Sean Davis	Analyst	Category Summary	Tue, 03 Jun 2025 23:56:53 GMT
19	Kathleen Walters	Analyst	Average Value Computation	Mon, 02 Jun 2025 10:44:15 GMT
68	Catherine Vazquez	Admin	Average Value Computation	Mon, 02 Jun 2025 08:35:31 GMT
113	Holly Pennington	Admin	Category Summary	Sun, 01 Jun 2025 18:11:02 GMT
93	Sarah Carrillo	Analyst	Outlier Detection	Sat, 31 May 2025 13:54:30 GMT
39	Carla Juarez	Analyst	Label Distribution	Fri, 30 May 2025 17:09:16 GMT
162	Victoria Lowe	Analyst	Label Distribution	Fri, 30 May 2025 15:58:04 GMT
22	Keith Hernandez	Analyst	Category Summary	Fri, 30 May 2025 13:10:10 GMT

17	James Perez	Admin	Outlier Detection	Fri, 30 May 2025 12:29:12 GMT
66	Nicole Joyce	Admin	Average Value Computation	Fri, 30 May 2025 09:41:25 GMT
136	Stephen Marks	Analyst	Label Distribution	Fri, 30 May 2025 04:12:21 GMT
46	Hannah Allen	Admin	Average Value Computation	Thu, 29 May 2025 19:12:03 GMT
181	Kevin Perry	Admin	Trend Analysis	Thu, 29 May 2025 06:51:30 GMT
27	Kevin Wade	Analyst	Average Value Computation	Thu, 29 May 2025 00:12:56 GMT
191	Daniel Savage	Analyst	Category Summary	Wed, 28 May 2025 20:56:29 GMT
47	Alison Herrera	Admin	Average Value Computation	Wed, 28 May 2025 19:42:32 GMT
148	Heidi Cortez	Admin	Outlier Detection	Mon, 26 May 2025 20:55:29 GMT
40	Dawn Todd MD	Admin	Label Distribution	Mon, 26 May 2025 19:27:12 GMT
50	Michelle Roberts	Analyst	Category Summary	Mon, 26 May 2025 19:16:34 GMT
139	Kathleen Walters	Analyst	Category Summary	Mon, 26 May 2025 11:33:28 GMT
74	Brittany Herrera	Admin	Category Summary	Mon, 26 May 2025 11:29:19 GMT
182	Alyssa Pennington	Analyst	Trend Analysis	Sun, 25 May 2025 00:49:22 GMT
45	Amanda Smith	Admin	Average Value Computation	Sat, 24 May 2025 01:50:42 GMT
157	Wendy Casey	Admin	Outlier Detection	Sat, 24 May 2025 01:28:42 GMT
89	Scott French	Admin	Label Distribution	Fri, 23 May 2025 07:20:11 GMT
179	Tabitha Bennett	Analyst	Average Value Computation	Thu, 22 May 2025 12:25:31 GMT
141	Amanda Williams	Analyst	Average Value Computation	Wed, 21 May 2025 02:04:26 GMT
60	George Garner	Admin	Outlier Detection	Tue, 20 May 2025 18:56:23 GMT
91	David Evans	Analyst	Trend Analysis	Tue, 20 May 2025 14:03:50 GMT
166	Yesenia McKee	Admin	Category Summary	Tue, 20 May 2025 13:30:49 GMT

125	Jessica Lee	Admin	Label Distribution	Mon, 19 May 2025 22:44:57 GMT
199	Paula Leonard	Admin	Outlier Detection	Mon, 19 May 2025 19:07:49 GMT
30	Nancy Hoffman	Analyst	Category Summary	Mon, 19 May 2025 18:27:59 GMT
101	Stephen Smith	Admin	Average Value Computation	Sun, 18 May 2025 22:14:31 GMT
49	Danielle Diaz	Admin	Trend Analysis	Sun, 18 May 2025 19:42:37 GMT
6	Allison Williams	Admin	Average Value Computation	Sun, 18 May 2025 18:54:46 GMT
62	Christine Goodwin	Analyst	Outlier Detection	Sun, 18 May 2025 15:33:29 GMT
115	Mr. Daniel Lee	Analyst	Label Distribution	Sun, 18 May 2025 01:23:13 GMT
163	Jennifer Ortiz	Analyst	Average Value Computation	Sat, 17 May 2025 21:53:59 GMT
117	Karina Bradley	Admin	Outlier Detection	Sat, 17 May 2025 12:57:07 GMT
184	Troy Cruz MD	Admin	Category Summary	Fri, 16 May 2025 17:37:02 GMT
13	Kathleen Walters	Analyst	Outlier Detection	Thu, 15 May 2025 18:47:58 GMT
169	Allison Williams	Admin	Label Distribution	Thu, 15 May 2025 17:03:36 GMT
150	Kelly Pineda	Analyst	Outlier Detection	Thu, 15 May 2025 09:27:03 GMT
197	Stephen Marks	Analyst	Outlier Detection	Wed, 14 May 2025 18:47:43 GMT
198	Henry Perry	Analyst	Outlier Detection	Wed, 14 May 2025 06:06:12 GMT
76	Kimberly Rogers	Analyst	Average Value Computation	Tue, 13 May 2025 22:52:36 GMT
167	Henry Perry	Analyst	Category Summary	Tue, 13 May 2025 12:55:21 GMT
12	James Gay	Admin	Outlier Detection	Mon, 12 May 2025 02:24:49 GMT
120	Andrew Rangel	Analyst	Label Distribution	Sun, 11 May 2025 01:46:32 GMT
63	Robin Cherry	Analyst	Category Summary	Sat, 10 May 2025 21:06:51 GMT
75	Alison Herrera	Admin	Category Summary	Sat, 10 May 2025 03:55:22 GMT

18	Misty Brooks	Admin	Trend Analysis	Fri, 09 May 2025 23:30:23 GMT
72	James Perez	Admin	Label Distribution	Fri, 09 May 2025 05:24:49 GMT
176	Leonard Morgan	Admin	Category Summary	Thu, 08 May 2025 13:40:04 GMT
140	Carla Juarez	Analyst	Trend Analysis	Thu, 08 May 2025 10:36:51 GMT
171	Hannah Lewis	Admin	Category Summary	Thu, 08 May 2025 04:38:29 GMT
88	Sarah Jackson	Admin	Trend Analysis	Wed, 07 May 2025 08:42:06 GMT
119	Matthew Owens	Analyst	Label Distribution	Wed, 07 May 2025 05:58:38 GMT
155	Keith Hernandez	Analyst	Category Summary	Tue, 06 May 2025 08:04:51 GMT
130	Michelle Roberts	Analyst	Label Distribution	Mon, 05 May 2025 15:36:53 GMT
59	Kristen Pitts	Admin	Label Distribution	Sun, 04 May 2025 00:21:10 GMT
102	Michael Harris	Admin	Outlier Detection	Sat, 03 May 2025 15:37:54 GMT
24	Robin Cherry	Analyst	Label Distribution	Fri, 02 May 2025 22:12:37 GMT
51	Jennifer Ramirez	Admin	Average Value Computation	Thu, 01 May 2025 11:47:15 GMT

### Sample 13 - Operation Count per User

 [View Query](#)
 [View Output](#)

```
SELECT u.name, COUNT(*) AS operations_count
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
GROUP BY u.name
ORDER BY operations_count DESC;
```

name	operations_count
Trevor Carroll	5
Sandra Austin	4
Allison Williams	4
Sarah Jackson	4

Gabriella Daugherty	4
Latoya Golden	4
Michelle Roberts	4
Matthew Owens	3
Henry Perry	3
Kathleen Walters	3
Robin Cherry	3
Kevin Perry	3
Amanda Smith	3
Alison Herrera	3
Patricia Weaver	3
Autumn White	3
David Evans	3
Keith Hernandez	3
Maria Schaefer	3
Victoria Lowe	3
Norma Sanchez	2
Tyler Smith	2
Paige Brown	2
Steven White	2
Holly Pennington	2
Monica Martin	2
Chloe Allen	2
Nancy Hoffman	2
Alyssa Pennington	2
Jennifer Ramirez	2
Paula Leonard	2
Lori Stewart	2
Sean Davis	2
Ronald Berg	2
Jessica Hayes	2
Carla Juarez	2
Laura Nelson	2

James Perez	2
Stephen Marks	2
Scott French	2
Hannah Allen	2
Jared Richards	2
Stephanie Jones	2
Jacob Swanson	2
Jennifer Ortiz	2
Tabitha Bennett	1
Misty Brooks	1
Daniel Savage	1
Daniel Jackson	1
Kari Crawford	1
Gary Hunter	1
Jerry Pierce	1
Shannon Bernard	1
Leah Holmes	1
Jasmine Chandler	1
Erin Marquez	1
Craig Lopez	1
James Gay	1
Karina Bradley	1
Jacob Oconnor	1
Heather Jones	1
George Garner	1
Dave Chavez	1
April Steele	1
Catherine Vazquez	1
Brianna Guerra	1
Isaac Mckenzie	1
Samantha Payne	1
Danielle Diaz	1
Kristen Pitts	1

Wendy Casey	1
Nicole Carlson	1
Kimberly Rogers	1
Emma Barry	1
Dylan Moore	1
Laurie Johnson	1
Mr. Daniel Lee	1
Lucas Nelson	1
Amy Burgess	1
Ryan Chavez	1
Hannah Lewis	1
Susan Hatfield	1
Amanda Williams	1
Matthew Smith	1
Heidi Cortez	1
Alexander Gibson	1
Mr. Raymond Melton	1
Tiffany King	1
Dawn Todd MD	1
Brittany Herrera	1
Pamela Rasmussen	1
Jennifer Taylor	1
Tammie Cruz	1
Kelly Pineda	1
Megan Johnson	1
Samantha Carpenter	1
Anthony Brown	1
Timothy Moody PhD	1
Brandon Watkins	1
Mrs. Laurie Kramer	1
Brooke Miller	1
Sylvia Anderson	1
Yesenia Mckee	1

Jennifer Williamson	1
Stephen Smith	1
Karen Livingston	1
Christine Goodwin	1
Jessica Newman	1
Leonard Morgan	1
Sarah Carrillo	1
Andrew Rangel	1
Kyle Carroll	1
Regina Williams	1
Leslie Jones	1
Michael Harris	1
Christine Torres	1
Lauren Chung	1
Melissa Spence	1
Daniel Thomas	1
Alisha Garrison	1
Kevin Wade	1
Rebekah Le	1
David Morrison	1
Jessica Lee	1
Nicole Joyce	1
Troy Cruz MD	1
Brett Keller	1

## Sample 14 - Label Distribution

[!\[\]\(efafcae43acae17c4bb9f41420411b00\_img.jpg\) View Query](#)
[!\[\]\(13a9156b5701358ad5df1ac9471f3466\_img.jpg\) View Output](#)

```
SELECT category, label, COUNT(*) AS count
FROM Dataset
GROUP BY category, label
ORDER BY category, count DESC;
```

category	label	count

Finance	Low	16
Finance	High	11
Finance	Medium	9
Finance	Critical	8
Logistics	Low	14
Logistics	Medium	9
Logistics	High	7
Logistics	Critical	7
Marketing	High	12
Marketing	Critical	11
Marketing	Low	10
Marketing	Medium	9
Sales	Medium	14
Sales	Low	13
Sales	High	10
Sales	Critical	10
Support	Medium	8
Support	High	8
Support	Low	8
Support	Critical	6

## Sample 15 - Users with >5 Ops

[View Query](#)
[View Output](#)

```
SELECT u.user_id, u.name, COUNT(*) AS operation_count
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
GROUP BY u.user_id, u.name
HAVING COUNT(*) > 5;
```

user_id	name	operation_count

## Sample 16 - Latest 10 Records

[View Query](#)[View Output](#)

```
SELECT * FROM Dataset ORDER BY timestamp DESC LIMIT 10;
```

record_id	category	value	timestamp	label
155	Sales	8993.05	Wed, 30 Jul 2025 09:40:13 GMT	High
99	Marketing	8458.97	Mon, 28 Jul 2025 17:10:37 GMT	High
194	Marketing	5194.18	Mon, 28 Jul 2025 11:10:22 GMT	Critical
91	Sales	9787.86	Sun, 27 Jul 2025 15:51:15 GMT	High
1	Support	7000.49	Sat, 26 Jul 2025 09:16:22 GMT	High
98	Marketing	6569.47	Thu, 24 Jul 2025 19:07:20 GMT	Low
151	Sales	2215.51	Thu, 24 Jul 2025 13:19:22 GMT	Medium
11	Sales	6984.5	Tue, 22 Jul 2025 07:01:28 GMT	Medium
189	Logistics	5350.38	Tue, 22 Jul 2025 02:42:34 GMT	Medium
26	Logistics	4499.35	Mon, 21 Jul 2025 10:50:58 GMT	Low

## Sample 17 - Outliers via Std Dev

[View Query](#)[View Output](#)

```
SELECT * FROM Dataset
WHERE value > (SELECT AVG(value) + 2 * STDDEV(value) FROM Dataset)
    OR value < (SELECT AVG(value) - 2 * STDDEV(value) FROM Dataset);
```

record_id	category	value	timestamp	label

## Sample 18 - Top Label per Category

[View Query](#)[View Output](#)

```
SELECT category, label, count FROM (
    SELECT category, label, COUNT(*) AS count,
        RANK() OVER (PARTITION BY category ORDER BY COUNT(*) DESC) AS rank
    FROM Dataset GROUP BY category, label
) ranked WHERE rank = 1;
```

category	label	count
Finance	Low	16

Logistics	Low	14
Marketing	High	12
Sales	Medium	14
Support	Medium	8
Support	High	8
Support	Low	8

## Sample 19 - Activity on Specific Day

[View Query](#)
[View Output](#)

```
SELECT u.name, a.operation, a.log_time
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
WHERE DATE(a.log_time) = '2025-07-25';
```

name	operation	log_time
Karen Livingston	Average Value Computation	Fri, 25 Jul 2025 05:12:32 GMT
Daniel Jackson	Trend Analysis	Fri, 25 Jul 2025 12:28:18 GMT
Lauren Chung	Average Value Computation	Fri, 25 Jul 2025 03:20:43 GMT
David Morrison	Trend Analysis	Fri, 25 Jul 2025 18:08:45 GMT
Jasmine Chandler	Outlier Detection	Fri, 25 Jul 2025 01:02:37 GMT

## Sample 20 - Avg Value by Day & Category

[View Query](#)
[View Output](#)

```
SELECT date_trunc('day', timestamp) AS day, category, AVG(value) AS avg_value
FROM Dataset
GROUP BY day, category
ORDER BY day, category;
```

day	category	avg_value
Thu, 30 Jan 2025 00:00:00 GMT	Finance	4620.39
Thu, 30 Jan 2025 00:00:00 GMT	Logistics	1370.45
Thu, 30 Jan 2025 00:00:00 GMT	Marketing	3119.675
Fri, 31 Jan 2025 00:00:00 GMT	Finance	7106.719999999999

Fri, 31 Jan 2025 00:00:00 GMT	Logistics	5193.04
Sat, 01 Feb 2025 00:00:00 GMT	Finance	1037.01
Sun, 02 Feb 2025 00:00:00 GMT	Logistics	6411.6
Tue, 04 Feb 2025 00:00:00 GMT	Logistics	7774.22
Fri, 07 Feb 2025 00:00:00 GMT	Marketing	5243.36
Sat, 08 Feb 2025 00:00:00 GMT	Finance	7716.38
Sun, 09 Feb 2025 00:00:00 GMT	Finance	8314.6
Sun, 09 Feb 2025 00:00:00 GMT	Marketing	198.17
Mon, 10 Feb 2025 00:00:00 GMT	Marketing	3175.29
Tue, 11 Feb 2025 00:00:00 GMT	Marketing	2318.45
Wed, 12 Feb 2025 00:00:00 GMT	Sales	275.52
Wed, 12 Feb 2025 00:00:00 GMT	Support	5096.58
Thu, 13 Feb 2025 00:00:00 GMT	Logistics	8980.36
Thu, 13 Feb 2025 00:00:00 GMT	Sales	3725.27
Fri, 14 Feb 2025 00:00:00 GMT	Marketing	4289.75
Fri, 14 Feb 2025 00:00:00 GMT	Sales	1939.1
Fri, 14 Feb 2025 00:00:00 GMT	Support	6425.07
Sun, 16 Feb 2025 00:00:00 GMT	Sales	1267.71
Sun, 16 Feb 2025 00:00:00 GMT	Support	2198.9700000000003
Mon, 17 Feb 2025 00:00:00 GMT	Sales	6521.81
Thu, 20 Feb 2025 00:00:00 GMT	Logistics	6870.22
Thu, 20 Feb 2025 00:00:00 GMT	Support	2557.89
Fri, 21 Feb 2025 00:00:00 GMT	Finance	731.97
Fri, 21 Feb 2025 00:00:00 GMT	Marketing	4864.03
Sun, 23 Feb 2025 00:00:00 GMT	Finance	4189.82
Tue, 25 Feb 2025 00:00:00 GMT	Sales	5271.83
Wed, 26 Feb 2025 00:00:00 GMT	Logistics	7530.26
Wed, 26 Feb 2025 00:00:00 GMT	Sales	7238.29
Fri, 28 Feb 2025 00:00:00 GMT	Marketing	8268.68
Sat, 01 Mar 2025 00:00:00 GMT	Finance	9419.55
Sun, 02 Mar 2025 00:00:00 GMT	Marketing	7192.32
Mon, 03 Mar 2025 00:00:00 GMT	Logistics	378.46
Wed, 05 Mar 2025 00:00:00 GMT	Sales	6166.88

Wed, 05 Mar 2025 00:00:00 GMT	Support	8791.75
Thu, 06 Mar 2025 00:00:00 GMT	Support	7362.235000000001
Mon, 10 Mar 2025 00:00:00 GMT	Support	1056.23
Tue, 11 Mar 2025 00:00:00 GMT	Marketing	8859.55
Thu, 13 Mar 2025 00:00:00 GMT	Sales	5548.08
Fri, 14 Mar 2025 00:00:00 GMT	Marketing	7335.21
Sat, 15 Mar 2025 00:00:00 GMT	Logistics	2857.17
Sun, 16 Mar 2025 00:00:00 GMT	Finance	2078.735
Sun, 16 Mar 2025 00:00:00 GMT	Sales	9893.57
Mon, 17 Mar 2025 00:00:00 GMT	Finance	8934.77
Tue, 18 Mar 2025 00:00:00 GMT	Finance	7247.135
Tue, 18 Mar 2025 00:00:00 GMT	Marketing	5034.945
Wed, 19 Mar 2025 00:00:00 GMT	Finance	6106.129999999999
Thu, 20 Mar 2025 00:00:00 GMT	Finance	2261.92
Thu, 20 Mar 2025 00:00:00 GMT	Sales	8174.91
Thu, 20 Mar 2025 00:00:00 GMT	Support	4342.66
Sat, 22 Mar 2025 00:00:00 GMT	Support	5743.94
Mon, 24 Mar 2025 00:00:00 GMT	Marketing	9419.14
Mon, 24 Mar 2025 00:00:00 GMT	Sales	4754.27
Tue, 25 Mar 2025 00:00:00 GMT	Finance	4013.35
Tue, 25 Mar 2025 00:00:00 GMT	Sales	8355.31
Wed, 26 Mar 2025 00:00:00 GMT	Sales	2717.53
Thu, 27 Mar 2025 00:00:00 GMT	Marketing	3780.18
Fri, 28 Mar 2025 00:00:00 GMT	Finance	8251.06
Fri, 28 Mar 2025 00:00:00 GMT	Sales	5886.22
Sun, 30 Mar 2025 00:00:00 GMT	Logistics	9944.8
Sun, 30 Mar 2025 00:00:00 GMT	Sales	3467.785
Mon, 31 Mar 2025 00:00:00 GMT	Support	1747.41
Tue, 01 Apr 2025 00:00:00 GMT	Marketing	9139.31
Tue, 01 Apr 2025 00:00:00 GMT	Sales	7568.87
Wed, 02 Apr 2025 00:00:00 GMT	Finance	1312.54
Wed, 02 Apr 2025 00:00:00 GMT	Support	5321.25
Sun, 06 Apr 2025 00:00:00 GMT	Marketing	2799.97

Sun, 06 Apr 2025 00:00:00 GMT	Support	6037.73
Mon, 07 Apr 2025 00:00:00 GMT	Finance	7975.98
Tue, 08 Apr 2025 00:00:00 GMT	Logistics	3112.28
Tue, 08 Apr 2025 00:00:00 GMT	Marketing	6186.5
Wed, 09 Apr 2025 00:00:00 GMT	Finance	4543.72
Wed, 09 Apr 2025 00:00:00 GMT	Logistics	4046.105
Sat, 12 Apr 2025 00:00:00 GMT	Sales	7758.13
Tue, 15 Apr 2025 00:00:00 GMT	Support	1462.125
Sat, 19 Apr 2025 00:00:00 GMT	Marketing	9472.31
Sat, 19 Apr 2025 00:00:00 GMT	Sales	5683.78
Wed, 23 Apr 2025 00:00:00 GMT	Support	4543.17
Thu, 24 Apr 2025 00:00:00 GMT	Logistics	8974.7
Thu, 24 Apr 2025 00:00:00 GMT	Marketing	2484.505
Fri, 25 Apr 2025 00:00:00 GMT	Sales	9834.19
Sat, 26 Apr 2025 00:00:00 GMT	Support	5097.91
Sun, 27 Apr 2025 00:00:00 GMT	Logistics	4012.9
Sun, 27 Apr 2025 00:00:00 GMT	Support	6229.87
Tue, 29 Apr 2025 00:00:00 GMT	Marketing	9900.14
Tue, 29 Apr 2025 00:00:00 GMT	Support	1204.48
Wed, 30 Apr 2025 00:00:00 GMT	Finance	9116.14
Thu, 01 May 2025 00:00:00 GMT	Support	3438.09
Fri, 02 May 2025 00:00:00 GMT	Marketing	6897.37
Fri, 02 May 2025 00:00:00 GMT	Sales	5495.2850000000001
Sun, 04 May 2025 00:00:00 GMT	Logistics	6925.93
Sun, 04 May 2025 00:00:00 GMT	Marketing	2322.66
Sun, 04 May 2025 00:00:00 GMT	Sales	1666.71
Mon, 05 May 2025 00:00:00 GMT	Sales	8181.32
Tue, 06 May 2025 00:00:00 GMT	Logistics	6056.34
Thu, 08 May 2025 00:00:00 GMT	Sales	6622.37
Fri, 09 May 2025 00:00:00 GMT	Finance	6325.4400000000005
Fri, 09 May 2025 00:00:00 GMT	Marketing	571.25
Sat, 10 May 2025 00:00:00 GMT	Finance	4559.29
Sun, 11 May 2025 00:00:00 GMT	Finance	4587.3

Sun, 11 May 2025 00:00:00 GMT	Logistics	3156.91
Wed, 14 May 2025 00:00:00 GMT	Marketing	9030.33
Thu, 15 May 2025 00:00:00 GMT	Finance	3605.86
Thu, 15 May 2025 00:00:00 GMT	Sales	3963.8
Fri, 16 May 2025 00:00:00 GMT	Logistics	6016.63
Fri, 16 May 2025 00:00:00 GMT	Marketing	5458.4
Sat, 17 May 2025 00:00:00 GMT	Support	3052.85
Sun, 18 May 2025 00:00:00 GMT	Finance	285.59
Sun, 18 May 2025 00:00:00 GMT	Marketing	7749.24
Sun, 18 May 2025 00:00:00 GMT	Sales	6884.18
Thu, 22 May 2025 00:00:00 GMT	Marketing	5914.86
Thu, 22 May 2025 00:00:00 GMT	Sales	7207.57
Sat, 24 May 2025 00:00:00 GMT	Finance	7766.01
Mon, 26 May 2025 00:00:00 GMT	Logistics	3022.51
Thu, 29 May 2025 00:00:00 GMT	Logistics	3492.3149999999996
Thu, 29 May 2025 00:00:00 GMT	Support	9472.92
Sat, 31 May 2025 00:00:00 GMT	Sales	7235.98
Sun, 01 Jun 2025 00:00:00 GMT	Finance	2305.69
Tue, 03 Jun 2025 00:00:00 GMT	Logistics	9751.31
Tue, 03 Jun 2025 00:00:00 GMT	Sales	8171.59
Thu, 05 Jun 2025 00:00:00 GMT	Logistics	4771.81
Thu, 05 Jun 2025 00:00:00 GMT	Sales	5343.22
Sat, 07 Jun 2025 00:00:00 GMT	Finance	1260.35
Sat, 07 Jun 2025 00:00:00 GMT	Sales	4739.88
Sun, 08 Jun 2025 00:00:00 GMT	Logistics	929.17
Sun, 08 Jun 2025 00:00:00 GMT	Sales	4684.57
Mon, 09 Jun 2025 00:00:00 GMT	Logistics	1118.16
Tue, 10 Jun 2025 00:00:00 GMT	Marketing	2618.69
Sat, 14 Jun 2025 00:00:00 GMT	Logistics	4272.79
Sun, 15 Jun 2025 00:00:00 GMT	Marketing	3254.09
Mon, 16 Jun 2025 00:00:00 GMT	Sales	8532.61
Tue, 17 Jun 2025 00:00:00 GMT	Support	2950.95
Wed, 18 Jun 2025 00:00:00 GMT	Logistics	579.85

Fri, 20 Jun 2025 00:00:00 GMT	Finance	5901.88
Fri, 20 Jun 2025 00:00:00 GMT	Support	2889.23
Sat, 21 Jun 2025 00:00:00 GMT	Support	2227.22
Sun, 22 Jun 2025 00:00:00 GMT	Marketing	9000.04
Sun, 22 Jun 2025 00:00:00 GMT	Support	7903.55
Wed, 25 Jun 2025 00:00:00 GMT	Marketing	310.97
Wed, 25 Jun 2025 00:00:00 GMT	Sales	6828.76
Sat, 28 Jun 2025 00:00:00 GMT	Logistics	5421.08
Sat, 28 Jun 2025 00:00:00 GMT	Sales	6823.01
Sun, 29 Jun 2025 00:00:00 GMT	Sales	4154.54
Mon, 30 Jun 2025 00:00:00 GMT	Finance	1044.69
Mon, 30 Jun 2025 00:00:00 GMT	Marketing	9867.38
Mon, 30 Jun 2025 00:00:00 GMT	Support	7793.53
Thu, 03 Jul 2025 00:00:00 GMT	Finance	5053.97
Sat, 05 Jul 2025 00:00:00 GMT	Finance	5494.96
Sun, 06 Jul 2025 00:00:00 GMT	Marketing	1603.85
Mon, 07 Jul 2025 00:00:00 GMT	Marketing	9656.51
Wed, 09 Jul 2025 00:00:00 GMT	Marketing	2367.07
Thu, 10 Jul 2025 00:00:00 GMT	Logistics	3671.67
Thu, 10 Jul 2025 00:00:00 GMT	Sales	7802.79
Sat, 12 Jul 2025 00:00:00 GMT	Finance	1819.58
Sun, 13 Jul 2025 00:00:00 GMT	Finance	7040.39
Mon, 14 Jul 2025 00:00:00 GMT	Finance	5789.61
Mon, 14 Jul 2025 00:00:00 GMT	Logistics	9744.84
Tue, 15 Jul 2025 00:00:00 GMT	Logistics	5804.05
Thu, 17 Jul 2025 00:00:00 GMT	Support	4726.8
Fri, 18 Jul 2025 00:00:00 GMT	Marketing	1452.2
Fri, 18 Jul 2025 00:00:00 GMT	Sales	2453.5
Sat, 19 Jul 2025 00:00:00 GMT	Finance	3738.04
Sat, 19 Jul 2025 00:00:00 GMT	Sales	1921.51
Sun, 20 Jul 2025 00:00:00 GMT	Finance	2188.665
Mon, 21 Jul 2025 00:00:00 GMT	Logistics	4499.35
Tue, 22 Jul 2025 00:00:00 GMT	Logistics	5350.38

Tue, 22 Jul 2025 00:00:00 GMT	Sales	6984.5
Thu, 24 Jul 2025 00:00:00 GMT	Marketing	6569.47
Thu, 24 Jul 2025 00:00:00 GMT	Sales	2215.51
Sat, 26 Jul 2025 00:00:00 GMT	Support	7000.49
Sun, 27 Jul 2025 00:00:00 GMT	Sales	9787.86
Mon, 28 Jul 2025 00:00:00 GMT	Marketing	6826.575
Wed, 30 Jul 2025 00:00:00 GMT	Sales	8993.05

## Nested Query 1 - Top 5 by Category

[View Query](#)
[View Output](#)

```
SELECT * FROM (
    SELECT *, RANK() OVER (PARTITION BY category ORDER BY value DESC) AS rank
    FROM Dataset
) ranked
WHERE rank <= 5;
```

record_id	category	value	timestamp	label	rank
127	Finance	9419.55	Sat, 01 Mar 2025 12:29:48 GMT	Medium	1
16	Finance	9187.98	Fri, 31 Jan 2025 15:54:23 GMT	High	2
157	Finance	9116.14	Wed, 30 Apr 2025 12:42:27 GMT	Critical	3
87	Finance	8934.77	Mon, 17 Mar 2025 16:40:37 GMT	Critical	4
104	Finance	8540.61	Tue, 18 Mar 2025 03:37:22 GMT	High	5
195	Logistics	9944.8	Sun, 30 Mar 2025 15:18:46 GMT	Low	1
140	Logistics	9751.31	Tue, 03 Jun 2025 21:48:36 GMT	Low	2
93	Logistics	9744.84	Mon, 14 Jul 2025 10:01:55 GMT	Medium	3
85	Logistics	8980.36	Thu, 13 Feb 2025 21:10:51 GMT	Medium	4
185	Logistics	8974.7	Thu, 24 Apr 2025 20:11:20 GMT	Medium	5
161	Marketing	9900.14	Tue, 29 Apr 2025 10:28:48 GMT	Low	1
67	Marketing	9867.38	Mon, 30 Jun 2025 15:00:58 GMT	Low	2
178	Marketing	9703.21	Tue, 18 Mar 2025 15:11:07 GMT	Medium	3
115	Marketing	9656.51	Mon, 07 Jul 2025 16:28:19 GMT	Critical	4
137	Marketing	9472.31	Sat, 19 Apr 2025 03:29:19 GMT	High	5
190	Sales	9977.7	Fri, 02 May 2025 08:50:00 GMT	Medium	1
118	Sales	9893.57	Sun, 16 Mar 2025 23:36:49 GMT	High	2

34	Sales	9834.19	Fri, 25 Apr 2025 07:04:11 GMT	Critical	3
91	Sales	9787.86	Sun, 27 Jul 2025 15:51:15 GMT	High	4
155	Sales	8993.05	Wed, 30 Jul 2025 09:40:13 GMT	High	5
102	Support	9472.92	Thu, 29 May 2025 07:28:09 GMT	Critical	1
84	Support	8791.75	Wed, 05 Mar 2025 21:48:17 GMT	High	2
123	Support	7903.55	Sun, 22 Jun 2025 06:08:56 GMT	Medium	3
183	Support	7793.53	Mon, 30 Jun 2025 19:40:57 GMT	Medium	4
58	Support	7744.79	Thu, 06 Mar 2025 19:00:48 GMT	Low	5

## Nested Query 2 - Compare Mean Values

 [View Query](#)
 [View Output](#)

```
SELECT category, AVG(value) AS mean_value FROM Dataset GROUP BY category ORDER BY mean_value DESC;
```

category	mean_value
Sales	5795.600212765957
Marketing	5286.146190476189
Logistics	5103.56
Finance	4758.310681818182
Support	4589.941000000001

## Nested Query 3 - Frequent Labels

 [View Query](#)
 [View Output](#)

```
SELECT category, label, count FROM (
    SELECT category, label, COUNT(*) AS count,
           RANK() OVER (PARTITION BY category ORDER BY COUNT(*) DESC) AS rank
    FROM Dataset GROUP BY category, label
) ranked WHERE rank = 1;
```

category	label	count
Finance	Low	16
Logistics	Low	14
Marketing	High	12
Sales	Medium	14

Support	Medium	8
Support	High	8
Support	Low	8

## Join Query 1 - Logs with User Info

[View Query](#)
[View Output](#)

```
SELECT a.log_id, u.user_id, u.name AS user_name, u.role, a.operation, a.log_time
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
ORDER BY a.log_time DESC;
```

log_id	user_id	user_name	role	operation	log_time
15	75	Norma Sanchez	Admin	Average Value Computation	Wed, 30 Jul 2025 20:01:14 GMT
193	40	Timothy Moody PhD	Analyst	Average Value Computation	Wed, 30 Jul 2025 06:57:55 GMT
14	122	Lucas Nelson	Admin	Average Value Computation	Tue, 29 Jul 2025 23:17:06 GMT
44	71	Leslie Jones	Analyst	Category Summary	Mon, 28 Jul 2025 21:41:49 GMT
58	101	Robin Cherry	Analyst	Trend Analysis	Mon, 28 Jul 2025 12:42:15 GMT
106	17	Sean Davis	Analyst	Label Distribution	Sun, 27 Jul 2025 03:59:07 GMT
161	5	Jared Richards	Admin	Outlier Detection	Sat, 26 Jul 2025 19:49:40 GMT
186	149	Autumn White	Admin	Label Distribution	Sat, 26 Jul 2025 14:58:28 GMT
83	113	David Morrison	Admin	Trend Analysis	Fri, 25 Jul 2025 18:08:45 GMT
67	96	Daniel Jackson	Analyst	Trend Analysis	Fri, 25 Jul 2025 12:28:18 GMT
147	70	Karen Livingston	Analyst	Average Value Computation	Fri, 25 Jul 2025 05:12:32 GMT
5	103	Lauren Chung	Analyst	Average Value Computation	Fri, 25 Jul 2025 03:20:43 GMT
151	167	Jasmine Chandler	Analyst	Outlier Detection	Fri, 25 Jul 2025 01:02:37 GMT
96	76	Allison Williams	Admin	Label Distribution	Thu, 24 Jul 2025 12:36:14 GMT

112	104	Ryan Chavez	Admin	Average Value Computation	Thu, 24 Jul 2025 10:25:45 GMT
108	178	Jacob Swanson	Admin	Trend Analysis	Thu, 24 Jul 2025 00:51:13 GMT
124	184	Brooke Miller	Analyst	Average Value Computation	Wed, 23 Jul 2025 17:04:24 GMT
23	178	Jacob Swanson	Admin	Category Summary	Wed, 23 Jul 2025 16:48:16 GMT
183	53	Mrs. Laurie Kramer	Analyst	Trend Analysis	Wed, 23 Jul 2025 10:48:41 GMT
134	33	Kari Crawford	Admin	Category Summary	Wed, 23 Jul 2025 10:00:05 GMT
174	56	Pamela Rasmussen	Admin	Category Summary	Wed, 23 Jul 2025 06:53:26 GMT
143	15	Gabriella Daugherty	Admin	Label Distribution	Wed, 23 Jul 2025 04:38:02 GMT
57	79	Paige Brown	Admin	Label Distribution	Tue, 22 Jul 2025 00:35:49 GMT
33	99	Jennifer Ortiz	Analyst	Average Value Computation	Mon, 21 Jul 2025 23:44:14 GMT
137	75	Norma Sanchez	Admin	Label Distribution	Mon, 21 Jul 2025 22:01:32 GMT
123	5	Jared Richards	Admin	Label Distribution	Mon, 21 Jul 2025 15:56:47 GMT
129	47	Jennifer Taylor	Analyst	Average Value Computation	Mon, 21 Jul 2025 12:14:02 GMT
53	171	Trevor Carroll	Analyst	Category Summary	Sun, 20 Jul 2025 16:08:33 GMT
94	7	Michelle Roberts	Analyst	Trend Analysis	Sun, 20 Jul 2025 12:53:20 GMT
133	91	Jennifer Williamson	Admin	Category Summary	Sat, 19 Jul 2025 13:48:10 GMT
138	144	Latoya Golden	Analyst	Average Value Computation	Sat, 19 Jul 2025 00:07:13 GMT
146	110	Monica Martin	Admin	Label Distribution	Fri, 18 Jul 2025 11:54:45 GMT
105	110	Monica Martin	Admin	Average Value Computation	Thu, 17 Jul 2025 12:22:14 GMT
85	49	Victoria Lowe	Analyst	Category Summary	Thu, 17 Jul 2025 00:06:39 GMT
42	141	Lori Stewart	Admin	Category Summary	Wed, 16 Jul 2025 01:34:58 GMT
92	41	Stephanie Jones	Admin	Category Summary	Tue, 15 Jul 2025 17:29:53 GMT

20	61	Erin Marquez	Admin	Average Value Computation	Tue, 15 Jul 2025 14:48:25 GMT
98	142	Amy Burgess	Admin	Trend Analysis	Tue, 15 Jul 2025 05:09:32 GMT
156	6	Sarah Jackson	Admin	Outlier Detection	Mon, 14 Jul 2025 12:58:23 GMT
127	140	Daniel Thomas	Admin	Average Value Computation	Sun, 13 Jul 2025 16:17:21 GMT
64	171	Trevor Carroll	Analyst	Trend Analysis	Sat, 12 Jul 2025 20:26:17 GMT
173	81	Kyle Carroll	Analyst	Category Summary	Fri, 11 Jul 2025 06:15:09 GMT
90	30	Henry Perry	Analyst	Label Distribution	Thu, 10 Jul 2025 18:10:53 GMT
168	149	Autumn White	Admin	Label Distribution	Thu, 10 Jul 2025 17:30:21 GMT
118	55	Megan Johnson	Analyst	Label Distribution	Thu, 10 Jul 2025 15:18:05 GMT
61	171	Trevor Carroll	Analyst	Label Distribution	Wed, 09 Jul 2025 20:48:17 GMT
142	136	Keith Hernandez	Analyst	Category Summary	Wed, 09 Jul 2025 10:36:30 GMT
73	6	Sarah Jackson	Admin	Label Distribution	Wed, 09 Jul 2025 08:45:22 GMT
109	78	Maria Schaefer	Admin	Category Summary	Wed, 09 Jul 2025 05:19:33 GMT
196	171	Trevor Carroll	Analyst	Label Distribution	Tue, 08 Jul 2025 11:02:39 GMT
189	192	Scott French	Admin	Average Value Computation	Tue, 08 Jul 2025 02:38:25 GMT
26	169	Dave Chavez	Analyst	Category Summary	Mon, 07 Jul 2025 17:47:35 GMT
110	159	Sandra Austin	Admin	Category Summary	Mon, 07 Jul 2025 05:10:52 GMT
71	141	Lori Stewart	Admin	Trend Analysis	Sun, 06 Jul 2025 13:08:56 GMT
38	74	Regina Williams	Analyst	Average Value Computation	Sun, 06 Jul 2025 11:12:50 GMT
200	129	Ronald Berg	Admin	Average Value Computation	Sun, 06 Jul 2025 08:57:55 GMT
16	119	Brett Keller	Admin	Label Distribution	Sat, 05 Jul 2025 20:52:43 GMT
195	86	Isaac Mckenzie	Admin	Average Value Computation	Sat, 05 Jul 2025 11:40:25 GMT

3	144	Latoya Golden	Analyst	Outlier Detection	Fri, 04 Jul 2025 10:52:28 GMT
145	194	Tyler Smith	Admin	Label Distribution	Fri, 04 Jul 2025 08:41:54 GMT
95	116	Jessica Hayes	Admin	Average Value Computation	Fri, 04 Jul 2025 04:00:51 GMT
2	26	Kevin Perry	Admin	Trend Analysis	Thu, 03 Jul 2025 16:38:23 GMT
116	21	Holly Pennington	Admin	Trend Analysis	Wed, 02 Jul 2025 19:26:50 GMT
77	12	Patricia Weaver	Admin	Trend Analysis	Wed, 02 Jul 2025 08:47:32 GMT
126	182	Amanda Smith	Admin	Label Distribution	Tue, 01 Jul 2025 19:47:46 GMT
144	76	Allison Williams	Admin	Outlier Detection	Tue, 01 Jul 2025 19:39:30 GMT
154	78	Maria Schaefer	Admin	Outlier Detection	Tue, 01 Jul 2025 12:44:08 GMT
149	116	Jessica Hayes	Admin	Trend Analysis	Tue, 01 Jul 2025 10:27:30 GMT
164	159	Sandra Austin	Admin	Label Distribution	Tue, 01 Jul 2025 07:17:20 GMT
87	73	Craig Lopez	Analyst	Average Value Computation	Sun, 29 Jun 2025 03:34:02 GMT
99	98	Paula Leonard	Admin	Trend Analysis	Sat, 28 Jun 2025 23:45:37 GMT
188	41	Stephanie Jones	Admin	Average Value Computation	Sat, 28 Jun 2025 21:15:52 GMT
107	54	Heather Jones	Analyst	Trend Analysis	Sat, 28 Jun 2025 06:00:05 GMT
41	145	Brandon Watkins	Analyst	Average Value Computation	Sat, 28 Jun 2025 04:15:50 GMT
7	182	Amanda Smith	Admin	Trend Analysis	Fri, 27 Jun 2025 10:51:08 GMT
111	183	Laura Nelson	Admin	Outlier Detection	Fri, 27 Jun 2025 08:02:18 GMT
86	159	Sandra Austin	Admin	Trend Analysis	Thu, 26 Jun 2025 11:32:19 GMT
35	88	Sylvia Anderson	Admin	Label Distribution	Thu, 26 Jun 2025 09:47:28 GMT
28	7	Michelle Roberts	Analyst	Trend Analysis	Thu, 26 Jun 2025 02:13:46 GMT
70	159	Sandra Austin	Admin	Category Summary	Wed, 25 Jun 2025 11:54:16 GMT

11	12	Patricia Weaver	Admin	Outlier Detection	Wed, 25 Jun 2025 08:14:34 GMT
158	135	Nicole Carlson	Analyst	Average Value Computation	Tue, 24 Jun 2025 16:57:17 GMT
25	161	Chloe Allen	Analyst	Outlier Detection	Tue, 24 Jun 2025 11:50:06 GMT
43	6	Sarah Jackson	Admin	Category Summary	Mon, 23 Jun 2025 01:30:16 GMT
56	130	Matthew Owens	Analyst	Category Summary	Sun, 22 Jun 2025 17:52:11 GMT
8	38	Nancy Hoffman	Analyst	Average Value Computation	Sun, 22 Jun 2025 11:18:25 GMT
10	177	David Evans	Analyst	Trend Analysis	Sun, 22 Jun 2025 10:20:30 GMT
80	65	Samantha Payne	Analyst	Label Distribution	Sat, 21 Jun 2025 11:19:03 GMT
78	64	Hannah Allen	Admin	Category Summary	Sat, 21 Jun 2025 04:18:46 GMT
34	144	Latoya Golden	Analyst	Category Summary	Fri, 20 Jun 2025 15:57:49 GMT
52	79	Paige Brown	Admin	Average Value Computation	Thu, 19 Jun 2025 23:21:41 GMT
55	44	Shannon Bernard	Analyst	Category Summary	Thu, 19 Jun 2025 20:39:10 GMT
194	191	Melissa Spence	Admin	Average Value Computation	Thu, 19 Jun 2025 17:57:32 GMT
65	60	Brianna Guerra	Analyst	Label Distribution	Thu, 19 Jun 2025 14:39:03 GMT
152	45	Laurie Johnson	Analyst	Average Value Computation	Wed, 18 Jun 2025 23:39:15 GMT
135	16	Jerry Pierce	Admin	Outlier Detection	Wed, 18 Jun 2025 22:26:52 GMT
153	12	Patricia Weaver	Admin	Outlier Detection	Wed, 18 Jun 2025 20:56:34 GMT
192	49	Victoria Lowe	Analyst	Outlier Detection	Wed, 18 Jun 2025 20:56:07 GMT
21	194	Tyler Smith	Admin	Average Value Computation	Wed, 18 Jun 2025 20:29:00 GMT
175	129	Ronald Berg	Admin	Label Distribution	Wed, 18 Jun 2025 18:59:36 GMT
79	90	Steven White	Analyst	Average Value Computation	Wed, 18 Jun 2025 09:56:48 GMT
1	161	Chloe Allen	Analyst	Category Summary	Tue, 17 Jun 2025 19:11:10 GMT

31	32	Christine Torres	Analyst	Average Value Computation	Tue, 17 Jun 2025 10:56:30 GMT
131	190	Matthew Smith	Admin	Label Distribution	Mon, 16 Jun 2025 09:26:45 GMT
32	59	Alexander Gibson	Analyst	Category Summary	Mon, 16 Jun 2025 01:09:43 GMT
132	180	Jessica Newman	Admin	Category Summary	Sun, 15 Jun 2025 15:28:42 GMT
160	26	Kevin Perry	Admin	Average Value Computation	Sun, 15 Jun 2025 12:36:25 GMT
69	67	Rebekah Le	Analyst	Average Value Computation	Sun, 15 Jun 2025 11:57:54 GMT
82	151	Alyssa Pennington	Analyst	Outlier Detection	Sun, 15 Jun 2025 00:00:25 GMT
29	149	Autumn White	Admin	Label Distribution	Sat, 14 Jun 2025 13:16:04 GMT
48	131	Tiffany King	Analyst	Outlier Detection	Sat, 14 Jun 2025 08:43:26 GMT
100	68	Mr. Raymond Melton	Analyst	Trend Analysis	Sat, 14 Jun 2025 03:09:08 GMT
122	15	Gabriella Daugherty	Admin	Category Summary	Sat, 14 Jun 2025 01:55:01 GMT
36	166	Jacob Oconnor	Analyst	Label Distribution	Fri, 13 Jun 2025 14:28:21 GMT
177	177	David Evans	Analyst	Outlier Detection	Thu, 12 Jun 2025 22:14:55 GMT
84	130	Matthew Owens	Analyst	Label Distribution	Thu, 12 Jun 2025 21:42:05 GMT
187	15	Gabriella Daugherty	Admin	Outlier Detection	Thu, 12 Jun 2025 17:48:59 GMT
165	126	Alison Herrera	Admin	Outlier Detection	Thu, 12 Jun 2025 11:49:57 GMT
54	111	Alisha Garrison	Admin	Trend Analysis	Thu, 12 Jun 2025 11:42:32 GMT
128	69	Emma Barry	Admin	Trend Analysis	Wed, 11 Jun 2025 13:55:59 GMT
104	183	Laura Nelson	Admin	Outlier Detection	Wed, 11 Jun 2025 11:14:21 GMT
81	27	April Steele	Analyst	Outlier Detection	Tue, 10 Jun 2025 15:53:30 GMT
114	171	Trevor Carroll	Analyst	Category Summary	Tue, 10 Jun 2025 10:34:52 GMT
185	14	Susan Hatfield	Admin	Trend Analysis	Tue, 10 Jun 2025 06:52:51 GMT

9	114	Samantha Carpenter	Admin	Trend Analysis	Tue, 10 Jun 2025 06:41:37 GMT
190	144	Latoya Golden	Analyst	Label Distribution	Tue, 10 Jun 2025 02:00:37 GMT
159	90	Steven White	Analyst	Trend Analysis	Mon, 09 Jun 2025 22:35:39 GMT
121	154	Anthony Brown	Admin	Trend Analysis	Sat, 07 Jun 2025 18:54:12 GMT
37	11	Dylan Moore	Analyst	Average Value Computation	Fri, 06 Jun 2025 22:02:04 GMT
180	197	Gary Hunter	Admin	Trend Analysis	Fri, 06 Jun 2025 09:22:16 GMT
97	174	Leah Holmes	Admin	Category Summary	Fri, 06 Jun 2025 08:30:48 GMT
4	143	Tammie Cruz	Admin	Category Summary	Thu, 05 Jun 2025 23:16:11 GMT
172	85	Jennifer Ramirez	Admin	Category Summary	Wed, 04 Jun 2025 14:10:35 GMT
178	78	Maria Schaefer	Admin	Trend Analysis	Wed, 04 Jun 2025 09:18:19 GMT
103	15	Gabriella Daugherty	Admin	Label Distribution	Wed, 04 Jun 2025 02:47:07 GMT
170	17	Sean Davis	Analyst	Category Summary	Tue, 03 Jun 2025 23:56:53 GMT
19	153	Kathleen Walters	Analyst	Average Value Computation	Mon, 02 Jun 2025 10:44:15 GMT
68	199	Catherine Vazquez	Admin	Average Value Computation	Mon, 02 Jun 2025 08:35:31 GMT
113	21	Holly Pennington	Admin	Category Summary	Sun, 01 Jun 2025 18:11:02 GMT
93	189	Sarah Carrillo	Analyst	Outlier Detection	Sat, 31 May 2025 13:54:30 GMT
39	107	Carla Juarez	Analyst	Label Distribution	Fri, 30 May 2025 17:09:16 GMT
162	49	Victoria Lowe	Analyst	Label Distribution	Fri, 30 May 2025 15:58:04 GMT
22	136	Keith Hernandez	Analyst	Category Summary	Fri, 30 May 2025 13:10:10 GMT
17	185	James Perez	Admin	Outlier Detection	Fri, 30 May 2025 12:29:12 GMT
66	170	Nicole Joyce	Admin	Average Value Computation	Fri, 30 May 2025 09:41:25 GMT
136	137	Stephen Marks	Analyst	Label Distribution	Fri, 30 May 2025 04:12:21 GMT

46	64	Hannah Allen	Admin	Average Value Computation	Thu, 29 May 2025 19:12:03 GMT
181	26	Kevin Perry	Admin	Trend Analysis	Thu, 29 May 2025 06:51:30 GMT
27	164	Kevin Wade	Analyst	Average Value Computation	Thu, 29 May 2025 00:12:56 GMT
191	193	Daniel Savage	Analyst	Category Summary	Wed, 28 May 2025 20:56:29 GMT
47	126	Alison Herrera	Admin	Average Value Computation	Wed, 28 May 2025 19:42:32 GMT
148	148	Heidi Cortez	Admin	Outlier Detection	Mon, 26 May 2025 20:55:29 GMT
40	155	Dawn Todd MD	Admin	Label Distribution	Mon, 26 May 2025 19:27:12 GMT
50	7	Michelle Roberts	Analyst	Category Summary	Mon, 26 May 2025 19:16:34 GMT
139	153	Kathleen Walters	Analyst	Category Summary	Mon, 26 May 2025 11:33:28 GMT
74	152	Brittany Herrera	Admin	Category Summary	Mon, 26 May 2025 11:29:19 GMT
182	151	Alyssa Pennington	Analyst	Trend Analysis	Sun, 25 May 2025 00:49:22 GMT
45	182	Amanda Smith	Admin	Average Value Computation	Sat, 24 May 2025 01:50:42 GMT
157	52	Wendy Casey	Admin	Outlier Detection	Sat, 24 May 2025 01:28:42 GMT
89	192	Scott French	Admin	Label Distribution	Fri, 23 May 2025 07:20:11 GMT
179	196	Tabitha Bennett	Analyst	Average Value Computation	Thu, 22 May 2025 12:25:31 GMT
141	31	Amanda Williams	Analyst	Average Value Computation	Wed, 21 May 2025 02:04:26 GMT
60	37	George Garner	Admin	Outlier Detection	Tue, 20 May 2025 18:56:23 GMT
91	177	David Evans	Analyst	Trend Analysis	Tue, 20 May 2025 14:03:50 GMT
166	50	Yesenia McKee	Admin	Category Summary	Tue, 20 May 2025 13:30:49 GMT
125	158	Jessica Lee	Admin	Label Distribution	Mon, 19 May 2025 22:44:57 GMT
199	98	Paula Leonard	Admin	Outlier Detection	Mon, 19 May 2025 19:07:49 GMT
30	38	Nancy Hoffman	Analyst	Category Summary	Mon, 19 May 2025 18:27:59 GMT

101	8	Stephen Smith	Admin	Average Value Computation	Sun, 18 May 2025 22:14:31 GMT
49	115	Danielle Diaz	Admin	Trend Analysis	Sun, 18 May 2025 19:42:37 GMT
6	76	Allison Williams	Admin	Average Value Computation	Sun, 18 May 2025 18:54:46 GMT
62	134	Christine Goodwin	Analyst	Outlier Detection	Sun, 18 May 2025 15:33:29 GMT
115	123	Mr. Daniel Lee	Analyst	Label Distribution	Sun, 18 May 2025 01:23:13 GMT
163	99	Jennifer Ortiz	Analyst	Average Value Computation	Sat, 17 May 2025 21:53:59 GMT
117	102	Karina Bradley	Admin	Outlier Detection	Sat, 17 May 2025 12:57:07 GMT
184	89	Troy Cruz MD	Admin	Category Summary	Fri, 16 May 2025 17:37:02 GMT
13	153	Kathleen Walters	Analyst	Outlier Detection	Thu, 15 May 2025 18:47:58 GMT
169	76	Allison Williams	Admin	Label Distribution	Thu, 15 May 2025 17:03:36 GMT
150	35	Kelly Pineda	Analyst	Outlier Detection	Thu, 15 May 2025 09:27:03 GMT
197	137	Stephen Marks	Analyst	Outlier Detection	Wed, 14 May 2025 18:47:43 GMT
198	30	Henry Perry	Analyst	Outlier Detection	Wed, 14 May 2025 06:06:12 GMT
76	181	Kimberly Rogers	Analyst	Average Value Computation	Tue, 13 May 2025 22:52:36 GMT
167	30	Henry Perry	Analyst	Category Summary	Tue, 13 May 2025 12:55:21 GMT
12	156	James Gay	Admin	Outlier Detection	Mon, 12 May 2025 02:24:49 GMT
120	106	Andrew Rangel	Analyst	Label Distribution	Sun, 11 May 2025 01:46:32 GMT
63	101	Robin Cherry	Analyst	Category Summary	Sat, 10 May 2025 21:06:51 GMT
75	126	Alison Herrera	Admin	Category Summary	Sat, 10 May 2025 03:55:22 GMT
18	168	Misty Brooks	Admin	Trend Analysis	Fri, 09 May 2025 23:30:23 GMT
72	185	James Perez	Admin	Label Distribution	Fri, 09 May 2025 05:24:49 GMT
176	105	Leonard Morgan	Admin	Category Summary	Thu, 08 May 2025 13:40:04 GMT

140	107	Carla Juarez	Analyst	Trend Analysis	Thu, 08 May 2025 10:36:51 GMT
171	25	Hannah Lewis	Admin	Category Summary	Thu, 08 May 2025 04:38:29 GMT
88	6	Sarah Jackson	Admin	Trend Analysis	Wed, 07 May 2025 08:42:06 GMT
119	130	Matthew Owens	Analyst	Label Distribution	Wed, 07 May 2025 05:58:38 GMT
155	136	Keith Hernandez	Analyst	Category Summary	Tue, 06 May 2025 08:04:51 GMT
130	7	Michelle Roberts	Analyst	Label Distribution	Mon, 05 May 2025 15:36:53 GMT
59	23	Kristen Pitts	Admin	Label Distribution	Sun, 04 May 2025 00:21:10 GMT
102	179	Michael Harris	Admin	Outlier Detection	Sat, 03 May 2025 15:37:54 GMT
24	101	Robin Cherry	Analyst	Label Distribution	Fri, 02 May 2025 22:12:37 GMT
51	85	Jennifer Ramirez	Admin	Average Value Computation	Thu, 01 May 2025 11:47:15 GMT

## Join Query 2 - Analyst Daily Activity

 [View Query](#)
 [View Output](#)

```
SELECT date_trunc('day', a.log_time) AS activity_day, COUNT(*) AS total_operations
FROM analysis_logs a
JOIN Users u ON a.user_id = u.user_id
WHERE u.role = 'Analyst'
GROUP BY activity_day
ORDER BY activity_day;
```

activity_day	total_operations
Fri, 02 May 2025 00:00:00 GMT	1
Mon, 05 May 2025 00:00:00 GMT	1
Tue, 06 May 2025 00:00:00 GMT	1
Wed, 07 May 2025 00:00:00 GMT	1
Thu, 08 May 2025 00:00:00 GMT	1
Sat, 10 May 2025 00:00:00 GMT	1
Sun, 11 May 2025 00:00:00 GMT	1
Tue, 13 May 2025 00:00:00 GMT	2

Wed, 14 May 2025 00:00:00 GMT	2
Thu, 15 May 2025 00:00:00 GMT	2
Sat, 17 May 2025 00:00:00 GMT	1
Sun, 18 May 2025 00:00:00 GMT	2
Mon, 19 May 2025 00:00:00 GMT	1
Tue, 20 May 2025 00:00:00 GMT	1
Wed, 21 May 2025 00:00:00 GMT	1
Thu, 22 May 2025 00:00:00 GMT	1
Sun, 25 May 2025 00:00:00 GMT	1
Mon, 26 May 2025 00:00:00 GMT	2
Wed, 28 May 2025 00:00:00 GMT	1
Thu, 29 May 2025 00:00:00 GMT	1
Fri, 30 May 2025 00:00:00 GMT	4
Sat, 31 May 2025 00:00:00 GMT	1
Mon, 02 Jun 2025 00:00:00 GMT	1
Tue, 03 Jun 2025 00:00:00 GMT	1
Fri, 06 Jun 2025 00:00:00 GMT	1
Mon, 09 Jun 2025 00:00:00 GMT	1
Tue, 10 Jun 2025 00:00:00 GMT	3
Thu, 12 Jun 2025 00:00:00 GMT	2
Fri, 13 Jun 2025 00:00:00 GMT	1
Sat, 14 Jun 2025 00:00:00 GMT	2
Sun, 15 Jun 2025 00:00:00 GMT	2
Mon, 16 Jun 2025 00:00:00 GMT	1
Tue, 17 Jun 2025 00:00:00 GMT	2
Wed, 18 Jun 2025 00:00:00 GMT	3
Thu, 19 Jun 2025 00:00:00 GMT	2
Fri, 20 Jun 2025 00:00:00 GMT	1
Sat, 21 Jun 2025 00:00:00 GMT	1
Sun, 22 Jun 2025 00:00:00 GMT	3
Tue, 24 Jun 2025 00:00:00 GMT	2
Thu, 26 Jun 2025 00:00:00 GMT	1
Sat, 28 Jun 2025 00:00:00 GMT	2

Sun, 29 Jun 2025 00:00:00 GMT	1
Fri, 04 Jul 2025 00:00:00 GMT	1
Sun, 06 Jul 2025 00:00:00 GMT	1
Mon, 07 Jul 2025 00:00:00 GMT	1
Tue, 08 Jul 2025 00:00:00 GMT	1
Wed, 09 Jul 2025 00:00:00 GMT	2
Thu, 10 Jul 2025 00:00:00 GMT	2
Fri, 11 Jul 2025 00:00:00 GMT	1
Sat, 12 Jul 2025 00:00:00 GMT	1
Thu, 17 Jul 2025 00:00:00 GMT	1
Sat, 19 Jul 2025 00:00:00 GMT	1
Sun, 20 Jul 2025 00:00:00 GMT	2
Mon, 21 Jul 2025 00:00:00 GMT	2
Wed, 23 Jul 2025 00:00:00 GMT	2
Fri, 25 Jul 2025 00:00:00 GMT	4
Sun, 27 Jul 2025 00:00:00 GMT	1
Mon, 28 Jul 2025 00:00:00 GMT	2
Wed, 30 Jul 2025 00:00:00 GMT	1

## Join Query 3 - Category vs Label

 [View Query](#)
 [View Output](#)

```
SELECT category, label, COUNT(*) AS count
FROM Dataset
GROUP BY category, label
ORDER BY category, count DESC;
```

category	label	count
Finance	Low	16
Finance	High	11
Finance	Medium	9
Finance	Critical	8
Logistics	Low	14
Logistics	Medium	9

Logistics	High	7
Logistics	Critical	7
Marketing	High	12
Marketing	Critical	11
Marketing	Low	10
Marketing	Medium	9
Sales	Medium	14
Sales	Low	13
Sales	High	10
Sales	Critical	10
Support	Medium	8
Support	High	8
Support	Low	8
Support	Critical	6