

Partition by along with order by

select a.*,rank() over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 use db;
2 select a.*,rank() over(partition by category_id order by views asc) from usvideos a;
```

The Results grid displays the following data:

#	title	channel_title	category_id	publish_time	tags	views	likes	dislikes
1	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai Jordan vogt-roberts Kong s...	943	1	0
2	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai Jordan vogt-roberts Kong s...	1028	2	0
3	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai Jordan vogt-roberts Kong s...	1082	2	0
4	RAPID EYE MOVEMENT&2Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud Peter Bishai Sleep deprivation...	2068	0	0
5	RGB Pixel Christmas Tree	Vosprey22	1	2017-11-29T03:12:19.000Z	raspberrypi rs2811 Sandevices e682 chris...	2460	19	0
6	RAPID EYE MOVEMENT&2Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud Peter Bishai Sleep deprivation...	2511	0	0
7	RAPID EYE MOVEMENT&2Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud Peter Bishai Sleep deprivation...	2645	0	0

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
12	14:16:55	select a.*,rank(overpartition by -1)from usvideos a	40949 row(s) returned	0.203 sec / 0.265 sec
13	14:17:38	select a.*,rank() overpartition by category_id)from usvideos a	40949 row(s) returned	0.203 sec / 0.282 sec
14	14:19:53	select a.*,rank() overpartition by category_id order by category_id asc) from usvideos a	40949 row(s) returned	0.203 sec / 0.281 sec
15	14:20:49	select a.*,rank() overpartition by category_id order by views asc) from usvideos a	40949 row(s) returned	0.203 sec / 0.281 sec

Row_number()

select a.*,row_number() over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 use db;
2 select a.*,row_number() over(partition by category_id order by views asc) from usvideos a;
```

The Results grid displays the following data:

#	title	channel_title	category_id	publish_time	tags	views	likes	dislikes	comment_count	comments_disabled	ratings_disabled	user_interaction	row_number() over(partition by category_id order by views asc)
1	rat trap trebuchet rat trap trebuchet...					614306	12380	903	2822	FALSE	FALSE	630411	1125
2	uter science computer science pr...					614433	24175	1929	2692	FALSE	FALSE	643229	1126
3	tomscott staufen germany blac...					616077	22491	188	1058	FALSE	FALSE	639814	1127
4	n life roggan youtube youtube life n...					616440	19998	483	5534	FALSE	FALSE	642455	1128
5	it vs watermelon truthers salt vs fruit ...					616526	9414	1513	2396	FALSE	FALSE	628049	1129
6	ryden ja electric electricity ...					616695	15447	920	3065	FALSE	FALSE	636127	1130
7	Ed TED Ed Ted Education Ted...					618535	18287	296	1882	FALSE	FALSE	639000	1131
8	id gas gasoline liquid nitrogen f...					619222	11510	644	4091	FALSE	FALSE	635467	1132
9	roundhouse Mrs harbour prepping ...					620721	11324	413	1541	FALSE	FALSE	633999	1133
10	rat trap trebuchet rat trap trebuchet...					621006	12447	905	2830	FALSE	FALSE	637188	1134

Dense_Rank()

select a.*,dense_rank() over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 use db;
2 select a.*,dense_rank() over(partition by category_id order by views asc) from usvideos a;
```

The Results Grid displays the following data:

	views	likes	dislikes	comment_count	comments_disabled	ratings_disabled	user_interaction	dense_rank() over(partition by category_id order by views asc)
▶ samuraiJordan vogt-robertsT"kong s...	943	1	0	0	FALSE	FALSE	944	1
▶ samuraiJordan vogt-robertsT"kong s...	1028	1	0	0	FALSE	FALSE	1029	2
▶ samuraiJordan vogt-robertsT"kong s...	1082	2	0	1	FALSE	FALSE	1085	3
▶ ArnaudJPeter BishaT"sleep deprivat...	2068	0	0	1	FALSE	TRUE	2069	4
▶ pi"ws2811T"sandevices e682T"chris...	2460	19	0	3	FALSE	FALSE	2482	5
▶ ArnaudJPeter BishaT"sleep deprivat...	2511	0	0	3	FALSE	TRUE	2514	6
▶ ArnaudJPeter BishaT"sleep deprivat...	2696	0	0	3	FALSE	TRUE	2697	7
▶ pi"ws2811T"sandevices e682T"chris...	2860	22	0	3	FALSE	FALSE	2885	8
▶ ChinaT"United StatesT"Environment...	3133	37	2	10	FALSE	FALSE	3182	9
▶ pi"ws2811T"sandevices e682T"chris...	3137	24	0	3	FALSE	FALSE	3164	10

Rank()

select a.*,rank() over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 use db;
2 select a.*,rank() over(partition by category_id order by views asc) from usvideos a;
```

The Results Grid displays the following data:

video_id	trending_date	title	channel_title	category_id	publish_time	tags
▶ a_Fa151LPU	18.07.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samuraiJordan vogt-robertsT"kong
▶ a_Fa151LPU	18.08.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samuraiJordan vogt-robertsT"kong
▶ a_Fa151LPU	18.09.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samuraiJordan vogt-robertsT"kong
▶ VoUEdyQJ8w	18.17.01	RAPID EYE MOVEMENTS'Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois ArnaudJPeter BishaT"sleep deprivat
▶ o2Bf0uJTw	17.23.12	RGB Pixel Christmas Tree	VOprey22	1	2017-11-29T03:12:19.000Z	raspberrypi"ws2811T"sandevices e682T"chri
▶ VoUEdyQJ8w	18.18.01	RAPID EYE MOVEMENTS'Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois ArnaudJPeter BishaT"sleep deprivat
▶ VoUEdyQJ8w	18.19.01	RAPID EYE MOVEMENTS'Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois ArnaudJPeter BishaT"sleep deprivat
▶ o2Bf0uJTw	17.24.12	RGB Pixel Christmas Tree	VOprey22	1	2017-11-29T03:12:19.000Z	raspberrypi"ws2811T"sandevices e682T"chri
▶ H4i0pX0dE	18.19.01	We recycle so much trash, it's created an in...	Grist	1	2018-01-16T15:35:17.000Z	RecyclingChinaT"United StatesT"Environmer
▶ o2Bf0uJTw	17.25.12	RGB Pixel Christmas Tree	VOprey22	1	2017-11-29T03:12:19.000Z	raspberrypi"ws2811T"sandevices e682T"chri

LEAD

select a.*,lead(category_id) over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use db;
2 select a.*,lead(category_id) over(partition by category_id order by views asc) from usvideos a;
```

The result grid displays the following data:

y_id	publish_time	tags	views	likes	dislikes	comment_count	comments_disabled	ratings_disabled	user_interaction	lead_cat
2017-12-18T17:10:48.000Z	pixel[electromechanical][display][xmas]	2717	5	0	0	FALSE	FALSE	2722	10	
2014-03-07T22:39:36.000Z	Aruduno[Robot]"Sensor"	2910	1	3	1	FALSE	FALSE	2915	10	
2014-03-07T22:39:36.000Z	Aruduno[Robot]"Sensor"	3333	4	3	5	FALSE	FALSE	3345	10	
2017-11-14T13:25:56.000Z	[none]	3390	9	0	1	FALSE	FALSE	3400	10	
2017-11-28T20:10:12.000Z	pug[Image]"pug life"[christmas]"carol"[dog]"...	3411	41	0	8	FALSE	FALSE	3460	10	
2014-03-07T22:39:36.000Z	Aruduno[Robot]"Sensor"	3456	4	4	5	FALSE	FALSE	3469	10	
2017-11-28T14:52:38.000Z	billboard news[billboard]"Official billboard chan...	3696	81	12	80	FALSE	FALSE	3869	10	
2017-11-14T13:25:56.000Z	[none]	3705	9	0	1	FALSE	FALSE	3715	10	
2017-11-28T14:52:38.000Z	billboard news[billboard]"Official billboard chan...	3817	82	12	87	FALSE	FALSE	3998	10	
2017-11-14T13:25:56.000Z	[none]	3896	9	0	1	FALSE	FALSE	3906	10	

LAG

select a.*,lag(category_id) over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 use db;
2 select a.*,lag(category_id) over(partition by category_id order by views asc) from usvideos a;
```

The result grid displays the following data:

video_id	trending_date	title	channel_title	category_id	publish_time	tags
s_FAjS1LPU	18.07.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai]"jordan vogt-roberts]"Kong
s_FAjS1LPU	18.08.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai]"jordan vogt-roberts]"Kong
s_FAjS1LPU	18.09.01	Gas Mask Scene Kong: Skull Island (2017)	Adam Whitley	1	2017-08-14T20:33:41.000Z	gas mask samurai]"jordan vogt-roberts]"Kong
VoEz9yQJ8w	18.17.01	RAPID EYE MOVEMENTS2"Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud]"Peter Biha]"sleep deprivat
o2ZbF0JTw	17.23.12	RGB Pixel Christmas Tree	VOsprey22	1	2017-11-29T03:12:19.000Z	raspberrypi]"ws2811]"sandewices e682]"chr
VoEz9yQJ8w	18.18.01	RAPID EYE MOVEMENTS2"Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud]"Peter Biha]"sleep deprivat
VoEz9yQJ8w	18.19.01	RAPID EYE MOVEMENTS2"Official Teaser Trailer	Tentmaker Pictures	1	2018-01-16T14:12:35.000Z	Francois Arnaud]"Peter Biha]"sleep deprivat
o2ZbF0JTw	17.24.12	RGB Pixel Christmas Tree	VOsprey22	1	2017-11-29T03:12:19.000Z	raspberrypi]"ws2811]"sandewices e682]"chr
H4WpBbXoE	18.19.01	We recycle so much trash, it's 46% created an in...	Grist	1	2018-01-16T15:35:17.000Z	Recycling]"China]"United States]"Environmer
o2ZbF0JTw	17.25.12	RGB Pixel Christmas Tree	VOsprey22	1	2017-11-29T03:12:19.000Z	raspberrypi]"ws2811]"sandewices e682]"chr

First_value

select a.*,first_value(comment_count) over(partition by category_id order by views asc) from usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 use db;
2 select a.*,first_value(comment_count) over(partition by category_id order by views asc) from usvideos a;
3
```

The Results tab displays the query output in a table format. The table has 11 columns: publish_time, tags, views, likes, dislikes, comment_count, comments_disabled, ratings_disabled, user_interaction, first_val by categ, and first_val by categ. The data is sorted by views in ascending order.

publish_time	tags	views	likes	dislikes	comment_count	comments_disabled	ratings_disabled	user_interaction	first_val by categ	first_val by categ
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	4103...	823...	15485	38569	FALSE	FALSE	41917059	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	4270...	837...	15793	38992	FALSE	FALSE	43592905	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	4453...	851...	16144	39413	FALSE	FALSE	45446517	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	4628...	864...	16478	39723	FALSE	FALSE	47205230	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	4804...	875...	16800	40141	FALSE	FALSE	48977244	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	5048...	895...	17244	40939	FALSE	FALSE	51442617	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	5183...	904...	17458	41199	FALSE	FALSE	52797674	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	5341...	914...	17716	41574	FALSE	FALSE	54388412	0	0
2018-05-10T16:00:11.000Z	selena gomez["13 reasons why","back to you"]...	5486...	922...	18037	41774	FALSE	FALSE	55846078	0	0
2016-05-13T20:47:57.000Z	dodge stratus["dodge stratus commercial"]Com...	2860	4	3	3	FALSE	FALSE	2870	3	3

last_value

select a.*,last_value(comment_count) over(partition by category_id order by views asc) from
usvideos a;

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select a.channel_title, a.views, a.comment_count, a.category_id,  
2 last_value(comment_count) over(partition by channel_title order by views desc)  
3 from usvideos a;
```

The Results Grid displays the following data:

channel_title	views	comment_count	category_id	last_value(comment_count) over(partition by channel_title order by views desc)
12 News	92327	0	22	0
12 News	85643	0	22	0
1MILLION Dance Studio	1000242	8283	24	8283
1MILLION Dance Studio	992294	854	24	854
1MILLION Dance Studio	975418	8249	24	8249
1MILLION Dance Studio	948506	8171	24	8171
1MILLION Dance Studio	915619	8139	24	8139
1MILLION Dance Studio	896401	821	24	821
1MILLION Dance Studio	871455	8037	24	8037
1MILLION Dance Studio	836624	7999	24	7999
1MILLION Dance Studio	817753	776	24	776
1MILLION Dance Studio	805312	7949	24	7949
1MILLION Dance Studio	767049	7869	24	7869
1MILLION Dance Studio	718988	7751	24	7751
1MILLION Dance Studio	705015	724	24	724
1MILLION Dance Studio	657867	7500	24	7500
1MILLION Dance Studio	627933	444	24	444