SQL TIPS AND TRICKS

PART 35

Custom Sort

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Example--
Get data from-→ https://dmerharyana.org/world-happiness-index/

RankNo	Country	Happiness_2021	Happiness_2022	2022_Population
1	Finland	7.842	7.809	5554960
2	Denmark	7.62	7.646	5834950
3	Switzer...	7.571	7.56	8773637
4	Iceland	7.554	7.504	345393
5	Netherl...	7.464	7.449	17211447
6	Norway	7.392	7.488	5511370
7	Sweden	7.363	7.353	10218971
8	Luxem...	7.324	7.238	642371
9	New Ze...	7.277	7.3	4898203
10	Austria	7.268	7.294	9066710
11	Australia	7.183	7.223	26068792
12	Israel	7.157	7.129	8922892
13	Germany	7.155	7.076	83883596
14	Canada	7.103	7.232	38388419
15	Ireland	7.085	7.129	5020199
16	Costa ...	7.069	7.121	5182354
17	United ...	7.064	7.165	68497907
18	Czech ...	6.965	6.911	10736784
19	United ...	6.951	6.94	334805269
20	Belgium	6.834	6.864	11668278
21	France	6.69	6.664	65584518
22	Bahrain	6.647	6.227	1783983

```
 9 •    SELECT * FROM happiness_index
10      ORDER BY Happiness_2022 DESC;
```

	RankNo	Country	Happiness_2021	Happiness_2022	2022_Population
▶	1	Finland	7.842	7.809	5554960
	2	Denmark	7.62	7.646	5834950
	3	Switzerland	7.571	7.56	8773637
	4	Iceland	7.554	7.504	345393
	6	Norway	7.392	7.488	5511370
	5	Netherlands	7.464	7.449	17211447
	7	Sweden	7.363	7.353	10218971
	9	New Zealand	7.277	7.3	4898203
	10	Austria	7.268	7.294	9066710
	8	Luxembourg	7.324	7.238	642371
	14	Canada	7.103	7.232	38388419
	11	Australia	7.183	7.223	26068792
	17	United King...	7.064	7.165	68497907
	12	Israel	7.157	7.129	8922892

happiness_index 2 ✕

```sql
11
12    -- bring India to top from 136th Rank
13 •⊖ SELECT * FROM (
14        SELECT *,
15 ⊖          CASE WHEN Country = 'India' THEN 1
16             ELSE 0 END AS Country_derived
17          FROM happiness_index) happy
18    ORDER BY Country_derived DESC, Happiness_2022 DESC;
```

	RankNo	Country	Happiness_2021	Happiness_2022	2022_Population	Country_derived
▶	136	India	3.819	3.573	1406631776	1
	1	Finland	7.842	7.809	5554960	0
	2	Denmark	7.62	7.646	5834950	0
	3	Switzerland	7.571	7.56	8773637	0
	4	Iceland	7.554	7.504	345393	0
	6	Norway	7.392	7.488	5511370	0
	5	Netherlands	7.464	7.449	17211447	0
	7	Sweden	7.363	7.353	10218971	0
	9	New Zealand	7.277	7.3	4898203	0
	10	Austria	7.268	7.294	9066710	0
	8	Luxembourg	7.324	7.238	642371	0
	14	Canada	7.103	7.232	38388419	0
	11	Australia	7.183	7.223	26068792	0
	17	United King...	7.064	7.165	68497907	0

Result 3 ✕

```
20      -- method 1
21 • ⊖ SELECT * FROM (
22          SELECT *,
23  ⊖           CASE WHEN Country = 'India' THEN 3
24                WHEN Country = 'Pakistan' Then 2
25                WHEN Country = 'Sri Lanka' THEN 1
26                ELSE 0 END AS Country_derived
27           FROM happiness_index) happy
28      ORDER BY Country_derived DESC, Happiness_2022 DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

RankNo	Country	Happiness_2021	Happiness_2022	2022_Population	Country_derived
136	India	3.819	3.573	1406631776	3
103	Pakistan	4.934	5.693	229488994	2
126	Sri Lanka	4.325	4.327	21575842	1
1	Finland	7.842	7.809	5554960	0
2	Denmark	7.62	7.646	5834950	0
3	Switzerland	7.571	7.56	8773637	0
4	Iceland	7.554	7.504	345393	0
6	Norway	7.392	7.488	5511370	0
5	Netherlands	7.464	7.449	17211447	0
7	Sweden	7.363	7.353	10218971	0
9	New Zealand	7.277	7.3	4898203	0
10	Austria	7.268	7.294	9066710	0
8	Luxembourg	7.324	7.238	642371	0
14	Canada	7.103	7.232	38388419	0

Result 4 ×

```sql
30        -- method 2
31 •      SELECT *
32        FROM happiness_index
33   ⊖    ORDER BY CASE WHEN Country = 'India' THEN 3
34                 WHEN Country = 'Pakistan' Then 2
35                 WHEN Country = 'Sri Lanka' THEN 1
36                 ELSE 0 END DESC,  Happiness_2022 DESC;
```

RankNo	Country	Happiness_2021	Happiness_2022	2022_Population
136	India	3.819	3.573	1406631776
103	Pakistan	4.934	5.693	229488994
126	Sri Lanka	4.325	4.327	21575842
1	Finland	7.842	7.809	5554960
2	Denmark	7.62	7.646	5834950
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4	Iceland	7.554	7.504	345393
6	Norway	7.392	7.488	5511370
5	Netherlands	7.464	7.449	17211447
7	Sweden	7.363	7.353	10218971
9	New Zealand	7.277	7.3	4898203
10	Austria	7.268	7.294	9066710
8	Luxembourg	7.324	7.238	642371
14	Canada	7.103	7.232	38388419

happiness_index5 ✕

THANK YOU

MAYURI DANDEKAR