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from pyspark.sql.window import Window
windowSpec = Window().partitionBy(['province']).orderBy(F.desc('confirmed'))
cases.withColumn("rank",F.rank().over(windowSpec)).show()

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case_id	province	city	group	infection_case	confirmed	latitude	longitude	rank
1700001	Sejong	Sejong	true	Ministry of Ocean...	30	36.504713	127.265172	1
1700002	Sejong	Sejong	true	gym facility in S...	8	36.48025	127.289	2
1700004	Sejong	-	false	overseas inflow	3	-	-	3
1700005	Sejong	-	false	contact with patient	3	-	-	3
1700003	Sejong	from other city	true	Shincheonji Church	1	-	-	5
1700006	Sejong	-	false	etc	1	-	-	5
1600001	Ulsan	from other city	true	Shincheonji Church	16	-	-	1
1600002	Ulsan	-	false	overseas inflow	15	-	-	2
1600004	Ulsan	-	false	etc	7	-	-	3
1600003	Ulsan	-	false	contact with patient	4	-	-	4
4000002	Chungcheongbuk-do	Goesan-gun	true	Goesan-gun Jangye...	11	36.82422	127.9552	1
4000005	Chungcheongbuk-do	-	false	etc	8	-	-	2
4000003	Chungcheongbuk-do	-	false	overseas inflow	7	-	-	3
4000001	Chungcheongbuk-do	from other city	true	Shincheonji Church	6	-	-	4
4000004	Chungcheongbuk-do	-	false	contact with patient	6	-	-	4
3000001	Gangwon-do	from other city	true	Shincheonji Church	17	-	-	1
3000004	Gangwon-do	-	false	overseas inflow	14	-	-	2
3000002	Gangwon-do	from other city	true	Uijeongbu St. Mar...	10	-	-	3
3000006	Gangwon-do	-	false	etc	7	-	-	4
3000003	Gangwon-do	Wonju-si	true	Wonju-si Apartments	3	37.342762	127.983815	5

only showing top 20 rows